CRESLINE®
CRESLINE PLASTIC PIPE CO., INC.

HD FLEXIBLE PIPE

FORM NO. 161-HD SPECIFICATIONS
PRICES ARE LISTED ON FORM MLP-1.
PLEASE ORDER BY PART NUMBER.

PPFA MEMBER PLASTIC PIPE AND FITTINGS ASSOCIATION

JANUARY, 2024

	SIZE	I.D.	MIN. WALL	WEIGHT PER 100'	COIL LENGTHS	PART NO.
HD 250 SIDR-7 CC3 NSF pw WHITE LABEL/BLACK PRINT	¾"	.824	.118	15.45	100	18605
					400	18610
	1	1.049	.150	24.98	100	18615
					300	18620
	1¼	1.380	.197	43.24	100	18625
					300	18630
	1½	1.610	.230	59.01	100	18645
					250	18650
	2	2.067	.295	97.02	100	18660
					200	18665
HD 200 SIDR-9 CC3 NSF pw YELLOW LABEL/BLACK PRINT	¾"	.824	.092	11.70	100	18005
					400	18010
	1	1.049	.117	18.92	100	18015
					300	18020
	1¼	1.380	.153	32.52	100	18025
					300	18030
	1½	1.610	.179	44.48	100	18045
					250	18050
	2	2.067	.230	73.57	100	18060
					200	18065
HD 160 SIDR-11.5 NSF pw RED LABEL/WHITE PRINT	½"	.622	.060	5.69	100	18101
					400	18102
	¾"	.824	.072	8.97	100	18105
					400	18110
	1	1.049	.091	14.37	100	18115
					300	18120
	1¼	1.380	.120	24.91	100	18125
					300	18130
	1½	1.610	.140	34.06	100	18135
					250	18140
	2	2.067	.180	57.52	100	18145
					200	18150
HD 125 SIDR-15 NSF IRG GREEN LABEL/WHITE PRINT	¾	.824	.060	7.34	100	18205
					400	18210
	1	1.049	.070	10.81	100	18215
					300	18220
	1¼	1.380	.092	18.75	100	18225
					300	18230
	1½	1.610	.107	25.51	100	18275
					250	18280
	2	2.067	.138	42.31	100	18290
					200	18295
HD 100 SIDR-19 NSF IRG BLUE LABEL/WHITE PRINT	1	1.049	.060	9.23	100	18335
					300	18340
	1¼	1.380	.073	14.70	100	18355
					300	18360
	1½	1.610	.085	19.95	100	18375
					250	18380
	2	2.067	.109	32.89	100	18390
					200	18395

ALL CRESLINE HD PIPE IS PRODUCED FROM PE 4710 MATERIAL AND CONFORMS TO ASTM D2239.

PRESSURE RATING
FOR CRESLINE FLEXIBLE PIPES
AT VARIOUS TEMPERATURES
ALL SIZES

DEGREE °F	73.4° F AND BELOW	100° F	120° F	140° F
HD 250	250	200	155	125
HD 200	200	155	125	100
HD 160	160	125	100	80
HD 125	125	100	80	60
HD 100	100	80	60	50

PRESSURE RATING IS THE ESTIMATED MAXIMUM PRESSURE THAT WATER AS THE MEDIUM IN THE PIPE CAN EXERT CONTINUOUSLY WITH A HIGH DEGREE OF CERTAINTY THAT FAILURE OF THE PIPE WILL NOT OCCUR.

CRESLINE HD FLEXIBLE PLASTIC PIPE MAY BE USED ON SUBMERSIBLE PUMPS OF 1.5 HP OR LESS.

MAXIMUM DEPTH SETTINGS TO WATER LEVEL IN FT. @ 60°F			
CRESLINE PE FLEXIBLE PIPE	MAX. TANK SHUT-OFF PRESSURE		
	40 PSI	50 PSI	60 PSI
HD 250	530'	500'	480'
HD 200	400'	380'	360'
HD 160	300'	280'	260'
HD 125	220'	200'	180'
HD 100	160'	140'	120'

NOTE: HD160 IS NSF-PW LISTED ONLY FOR WATER SYSTEMS WITHOUT OXIDIZING DISINFECTANTS.

PPFA MEMBER PLASTIC PIPE AND FITTINGS ASSOCIATION

CRESLINE PLASTIC PIPE CO., INC. **www.cresline.com**

600 Cross Pointe Blvd.	Evansville, IN 47715	812-428-9350	Fax 812-428-9353
264 Silver Spring Rd.	Mechanicsburg, PA 17050	717-766-2566	Fax 717-697-2371
2100 South 35th St.	Council Bluffs, IA 51501	712-322-2294	Fax 712-322-6673
3801 East Business SH 31	Corsicana, TX 75109	903-872-8475	Fax 903-872-7732

CRESLINE®
CRESLINE PLASTIC PIPE CO., INC.

CE BLUE® FLEXIBLE PIPE

FORM NO. 161-CE SPECIFICATIONS
PRICES ARE LISTED ON FORM MLP-1.
PLEASE ORDER BY PART NUMBER.

PPFA MEMBER PLASTIC PIPE AND FITTINGS ASSOCIATION

JANUARY, 2024

	SIZE	O.D.	MIN. WALL	WEIGHT PER 100'	COIL LENGTHS	PART NO.
CE BLUE® 250 PSI - CTS SDR - 9 AWWA C-901 CC3 NSF pw ASTM D2737	¾"	.875	.097	10.20	100	19715
					500	19720
	1	1.125	.125	16.85	100	19730
					300	19735
					500	19738
	1¼	1.375	.153	25.22	100	19750
					300	19755
	1½	1.625	.181	35.28	100	19770
					300	19775
	2	2.125	.236	60.23	100	19785
					200	19790

	SIZE	I.D.	MIN. WALL	WEIGHT PER 100'	COIL LENGTHS	PART NO.
CE BLUE® 250 PSI - IPS SIDR - 7 CC3 NSF pw ASTM D2239	¾"	.824	.118	15.31	100	19115
					400	19120
	1	1.049	.150	24.75	100	19130
					300	19135
	1¼	1.380	.197	42.83	100	19150
					300	19155

CE BLUE® 200 PSI - IPS SIDR - 9 CC3 NSF pw ASTM D2239	¾"	.824	.092	11.59	100	19315
					400	19320
	1	1.049	.117	18.74	100	19330
					300	19335
	1¼	1.380	.153	32.22	100	19350
					300	19355

CRESLINE CE BLUE® POLYETHYLENE FLEXIBLE PIPE IS PRODUCED FROM HD PE 4710 MATERIAL.

CRESLINE PLASTIC PIPE CO., INC. www.cresline.com

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PRESSURE RATING
FOR CRESLINE FLEXIBLE PIPES
AT VARIOUS TEMPERATURES
ALL SIZES

DEGREE °F	73.4° F AND BELOW	100° F	120° F	140° F
CE BLUE® 250	250	200	155	125
CE BLUE® 200	200	155	125	100

PRESSURE RATING IS THE ESTIMATED MAXIMUM PRESSURE THAT WATER AS THE MEDIUM IN THE PIPE CAN EXERT CONTINUOUSLY WITH A HIGH DEGREE OF CERTAINTY THAT FAILURE OF THE PIPE WILL NOT OCCUR.

CRESLINE CE BLUE® FLEXIBLE PLASTIC PIPE MAY BE USED ON SUBMERSIBLE PUMPS OF 1.5 HP OR LESS.

MAXIMUM DEPTH SETTINGS TO WATER LEVEL IN FT @ 60° F			
CRESLINE PE	MAX. TANK SHUT-OFF PRESSURE		
FLEXIBLE PIPE	40 PSI	50 PSI	60 PSI
CE BLUE® 250	530'	510'	485'
CE BLUE® 200	420'	400'	370'

PPFA MEMBER PLASTIC PIPE AND FITTINGS ASSOCIATION

NSF pw

CRESLINE PLASTIC PIPE CO., INC. **www.cresline.com**

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CRESLINE®
CRESLINE PLASTIC PIPE CO., INC.

WATER SERVICE
PE FLEXIBLE PIPE

FORM NO. 161-CTS SPECIFICATIONS **JANUARY, 2024**

PRICES ARE LISTED ON FORM MLP-1.

PLEASE ORDER BY PART NUMBER.

	SIZE	O.D.	MIN. WALL	WEIGHT PER 100'	COIL LENGTHS	PART NO.
HD CTS SDR-9 250 PSI PE 4710 AWWA C-901 CC3 NSF pw POTABLE WATER ORANGE LABEL/WHITE PRINT	¾"	.875	.097	10.27	100	18515
					500	18520
	1	1.125	.125	16.97	100	18535
					300	18540
	1¼	1.375	.153	25.40	100	18555
					300	18560
	1½	1.625	.181	35.52	100	18575
					300	18580
	2	2.125	.236	60.65	100	18590
					200	18595

CRESLINE HD CTS IS PERMANENTLY MARKED AND HAS A CELL CLASSIFICATION OF 445576C.

CRESLINE HD CTS TUBING CONFORMS TO ASTM D2737 AND MEETS NSF STANDARDS 14 AND 61.

PRESSURE DROP OF WATER PER 100' OF PIPE

SIZE	¾"		1"		1¼"		1½"		2"	
GPM	VELOCITY FT./SEC.	PRES. DROP PSI	VELOCITY FT./SEC.	PRES. DROP PSI	VELOCITY FT./SEC.	PRES. DROP PSI	VELOCITY FT./SEC.	PRES. DROP PSI	VELOCITY FT./SEC.	PRES. DROP PSI
1	.91	.30	.55	.09	.37	.04	.27	.01		
2	1.83	1.09	1.10	.32	.74	.12	.53	.05		
3	2.74	2.30	1.66	.68	1.11	.26	.80	.11		
4	3.65	3.92	2.21	1.16	1.48	.44	1.06	.19		
5	4.56	5.93	2.76	1.74	1.85	.66	1.33	.29	.77	.08
6	5.48	8.31	3.31	2.45	2.22	.92	1.59	.41	.93	.11
7	6.39	11.05	3.87	3.26	2.59	1.23	1.86	.55	1.08	.15
8	7.30	14.15	4.42	4.17	2.96	1.57	2.12	.70	1.24	.19
9	8.21	17.60	4.97	5.19	3.33	1.96	2.39	.87	1.39	.23
10	9.13	21.40	5.52	6.30	3.70	2.38	2.65	1.06	1.55	.29
15	13.69	45.33	8.28	13.36	5.55	5.03	3.98	2.24	2.32	.61
20					7.40	8.58	5.30	3.82	3.09	1.03
30					11.09	18.17	7.96	8.09	4.64	2.18
40					18.49	46.81	10.61	13.80	6.19	3.71
50							13.26	20.86	7.73	5.62
60									9.28	7.87
70									10.83	10.48
80									12.38	13.42

PPFA MEMBER PLASTIC PIPE AND FITTINGS ASSOCIATION

CRESLINE PLASTIC PIPE CO., INC. **www.cresline.com**

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CRESLINE®
CRESLINE PLASTIC PIPE CO., INC.

PE 2708
YELLOW GAS PIPE

FORM NO. 161-YG SPECIFICATIONS **DECEMBER, 2014**
PRICES ARE LISTED ON FORM MLP-1.
PLEASE ORDER BY PART NUMBER.

PPFA MEMBER PLASTIC PIPE AND FITTINGS ASSOCIATION

	SIZE	SDR	O.D.	MIN. WALL	WEIGHT PER 100'	COIL LENGTHS	PART NO.
YELLOW GAS PIPE YG - IPS	½"	9.3	.840	.090	9.13	100	27003
						150	27005
						500	27010
	¾	11	1.050	.095	12.25	100	27118
						150	27120
						500	27125
	1	11	1.315	.120	19.37	100	27128
						150	27130
						500	27135
	1¼	11	1.660	.151	30.81	100	27138
						150	27140
						500	27145
	1¼	10	1.660	.166	33.53	150	27150
						500	27155
	1½	11	1.900	.173	40.44	100	27158
						150	27160
						500	27165
	2	11	2.375	.216	63.10	100	27170
						150	27172
WHITE LABEL/BLACK PRINT						500	27175

YELLOW GAS TUBING YG - CTS	½"	7	.625	.090	6.44	150	27705
						500	27710
	1	11	1.125	.101	13.99	100	27738
						150	27740
WHITE LABEL/BLACK PRINT						500	27745

CRESLINE POLYETHYLENE GAS CONFORMS TO PE 2708, ASTM D 2513.

CRESLINE PLASTIC PIPE CO., INC. www.cresline.com

600 Cross Pointe Blvd.	Evansville, IN 47715	812-428-9350	Fax 812-428-9353
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CRESLINE YELLOW PE GAS PIPE AND TUBING IS MANUFACTURED AND RATED ACCORDING TO THE FOLLOWING:

STANDARDS AND GUIDELINES

ASTM D 2513
ASTM D 3350
ASTM D 678

CODE OF FEDERAL REGULATIONS, U.S. DEPT. OF TRANSPORTATION PIPELINE SAFETY REGULATIONS TITLE 49, PART 192

MATERIAL LISTED IN PPI - TR4

PE 2708 YELLOW GAS PIPE			
PROPERTIES	**ASTM TEST**	**ENGLISH UNITS**	**SI UNITS**
CELL CLASSIFICATION	D 3350	234333E	234433E
MELT INDEX	D 1238		0.20g/10 MIN
DENSITY (YELLOW)	D 1505		0.943 g/cc
TENSILE STRENGTH AT YIELD (2 IN/MIN)	D 638	2,800 PSI	19.3 Mpa
TENSILE STRENGTH AT BREAK (2 IN/MIN)	D 638	4,500 PSI	31.0 Mpa
NOTCH TENSILE (PENT)	F 1473	> 100 HRS	> 100 HRS
ELONGATION AT BREAK (2 IN/MIN)	D 638	> 800 %	> 800 %
VICAT SOFTENING POINT	D 1525	248 DEGREES F	120 DEGREES C
FLEXURAL MODULUS	D 790	100,000 PSI	690 Mpa
THERMAL STABILITY	D 2513/D 3350	428 DEGREES F MIN	220 DEGREES C MIN
BRITTLENESS TEMPERATURE	D 746	< 180 DEGREES F	< 118 DEGREES C
ENVIRONMENTAL STRESS CRACK RESISTANCE	D 1693	> 5,000 HRS	> 5,000 HRS
NOTCHED IZOD IMPACT STRENGTH	D 256	10 FT-LBF/IN	0.53 KJ/m
HYDROSTATIC DESIGN BASIS @ 23 DEGREES C	D 2837	1250 PSI	8.6 MPa

PLEASE CONSULT THE FOLLOWING REFERENCES FOR RECOMMENDED INSTALLATION METHODS:

-AMERICAN GAS ASSOCIATION PLASTIC PIPE MANUAL FOR GAS SERVICE
-CODE OF FEDERAL REGULATIONS, TITLE 49, SUBCHAPTER D
-PLASTIC PIPE INSTITUTE TR33

PLEASE REFER TO PLASTIC PIPE INSTITUTE TR22 WHEN USING THIS PRODUCT FOR TRANSPORATION OF PROPANE GAS.

MAXIMUM OPERATING PRESSURES FOR PE 2708 YELLOW GAS PIPE	
SDR	**73.4 DEGREES F**
7	100 PSI
9.3	96 PSI
10	88 PSI
11	80 PSI

CRESLINE PLASTIC PIPE CO., INC. www.cresline.com

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CRESLINE®
CRESLINE PLASTIC PIPE CO., INC.

POLYETHYLENE FLEXIBLE PIPE

FORM NO. 661 SPECIFICATIONS — MARCH, 2019

SPARTAN®

MANUFACTURED FROM SELECTED RESINS - LIGHT IN WEIGHT - LOW COST - VERY FLEXIBLE

	SIZE	I.D.	MIN. WALL	WEIGHT PER 100'	COIL LENGTHS	PART NO.
SPARTAN 100	½"	.622	.060	5.64	100	20010
					400	20015
	¾	.824	.060	7.28	100	20020
					400	20025
	1	1.049	.070	10.72	100	20030
					300	20035
	1¼	1.380	.092	18.61	100	20040
					300	20045
	1½	1.610	.107	25.32	100	20050
					250	20055
	2	2.067	.138	41.98	100	20060

SPARTAN 80	¾"	.824	.060	7.28	100	21005
					400	21010
	1	1.049	.060	9.12	100	21020
					300	21025
	1¼	1.380	.073	14.59	100	21035
					300	21040
	1½	1.610	.085	19.80	100	21050
					250	21055
	2	2.067	.109	32.64	100	21060
					200	21065

CRESLINE PLASTIC PIPE CO., INC. — **www.cresline.com**

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CRESLINE®
CRESLINE PLASTIC PIPE CO., INC.

PVC PRESSURE PIPE
SDR-26 & SDR-21

FORM NO. 761LW SPECIFICATIONS

JANUARY, 2016

	SIZE	O.D.	MIN. WALL	WEIGHT PER 100'	SOCKET DEPTH INCHES	FEET PER PALLET	PALLETS PER T.L.	BELLED PART NO.
	1¼"	1.660	.064	20.93	2.750	4000	32	45243
	1½	1.900	.073	27.31	3.000	3600	28	45280
SDR-26	2	2.375	.091	42.51	3.000	2800	24	45345
PRESSURE PIPE	2½	2.875	.110	62.13	3.500	2240	20	45410
160 PSI	3	3.500	.135	92.81	4.000	1500	20	45470
PVC1120	4	4.500	.173	156.97	5.000	580	28	47075
ASTM D2241	6	6.625	.255	342.71	6.500	400	20	47120
	8	8.625	.332	581.78	7.000	280	16	47735
NSF pw	10	10.750	.413	904.15	7.500	160	16	47145
	12	12.750	.490	1274.47	8.000	120	12	47155
	16	16.000	.616	2026.31	10.000	120	12	47175

NOTE: 8" SDR-26 IS DUAL MARKED FOR SCH-40 PIPE.

	*½"	.840	.062	9.81	2.000	8400	44	46105
	¾	1.050	.060	12.11	2.125	6600	40	46157
	1	1.315	.063	16.17	2.375	5400	32	46207
	1¼	1.660	.079	25.59	2.750	4000	32	46243
SDR-21	1½	1.900	.090	33.32	3.000	3600	28	46285
PRESSURE PIPE	2	2.375	.113	52.32	3.000	2800	24	46345
200 PSI	2½	2.875	.137	76.53	3.500	2240	20	46410
PVC1120	3	3.500	.167	113.71	4.000	1500	20	46470
ASTM D2241	4	4.500	.214	192.22	5.000	580	28	47275
	6	6.625	.316	420.11	6.500	400	20	47320
NSF pw	8	8.625	.410	710.96	7.500	280	16	47335
	10	10.750	.511	1106.58	8.000	160	16	47355
	12	12.750	.606	1560.36	10.000	120	12	47375

*SDR 13.5 - 315 PSI. NOT RECOMMENDED FOR THREADING.

STANDARD LENGTH 20' EXCEPT 4", 6", 8", 10", 12", & 16" WHICH ARE 20' LAYING LENGTH.

PRESSURE RATINGS
FOR CRESLINE - PVC PIPES
AT 73.4° F

SIZE	½	¾	1	1¼	1½	2	2½	3	4	6	8	10	12	16
SDR-26	--	--	--	160	160	160	160	160	160	160	160	160	160	160
SDR-21	315	200	200	200	200	200	200	200	200	200	200	200	200	--

CONVERSION CHART FOR PRESSURE RATINGS
AT VARIOUS TEMPERATURES FOR CRESLINE - PVC PIPE

TEMPERATURE °F	73.4°	80°	90°	100°	110°	120°	130°	140°
CONVERSION FACTOR	1.00	.88	.75	.62	.50	.40	.30	.22

PRESSURE RATING IS THE ESTIMATED MAXIMUM PRESSURE THAT WATER AS THE MEDIUM IN THE PIPE CAN EXERT CONTINUOUSLY WITH A HIGH DEGREE OF CERTAINTY THAT FAILURE OF THE PIPE WILL NOT OCCUR.

DO NOT USE PLASTIC PIPE AND FITTINGS FOR COMPRESSED AIR.

PALLET QUANTITY PVC PRESSURE PIPE

PIPE SIZE	FEET PER PALLET	WT. PER PALLET	
		SDR-26	SDR-21
½	8400	--	824
¾	6600	--	799
1	5400	--	873
1¼	4000	837	1024
1½	3600	983	1200
2	2800	1191	1465
2½	2240	1392	1714
3	1500	1392	1706
4	580	910	1115
6	400	1371	1681
8	280	1629	1991
10	160	1447	1771
12	120	1529	1872
16	120	2432	--

PVC SDR-26 & SDR-21 CAN BE USED ON JET OR SUBMERSIBLE PUMPS OF 1HP OR LESS

MAXIMUM DEPTH SETTING TO WATER LEVEL IN FT @ 73.4° F			
CRESLINE PVC PRESSURE PIPE	MAX. TANK SHUT-OFF PRESSURE		
	40 PSI	50 PSI	60 PSI
ANY SIZE PVC SDR-26	275'	255'	230'
ANY SIZE PVC SDR-21	365'	345'	320'

PPFA MEMBER PLASTIC PIPE AND FITTINGS ASSOCIATION

NSF pw

CRESLINE PLASTIC PIPE CO., INC. www.cresline.com

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CRESLINE®
CRESLINE PLASTIC PIPE CO., INC.

PVC PRESSURE PIPE GASKET JOINT

FORM NO. 761 GJ SPECIFICATIONS

MAY, 2021

	SIZE	O.D.	MIN. WALL	WEIGHT PER 100'	SOCKET DEPTH INCHES	FEET PER PALLET	PALLETS PER T.L.	GJ PART NO.
GASKET JOINT SDR-26 PRESSURE PIPE 160 PSI PVC1120 ASTM D2241 NSF pw	2	2.375	.091	43.44	4.25	2960	20	48070
	2½	2.875	.110	63.63	4.75	1800	20	48090
	3	3.500	.135	95.24	5.00	1160	20	48110
	4	4.500	.173	157.63	6.00	760	20	48130
	6	6.625	.255	343.09	6.75	360	20	48170
	8	8.625	.332	585.35	8.00	280	16	48190
	10	10.750	.413	909.60	8.75	160	16	48200
	12	12.750	.490	1280.80	9.50	120	12	48210

GASKET JOINT SDR-21 PRESSURE PIPE 200 PSI PVC1120 ASTM D2241 NSF pw	2	2.375	.113	53.46	4.25	2960	20	48471
	2½	2.875	.137	78.37	4.75	1800	20	48491
	3	3.500	.167	116.68	5.00	1160	20	48511
	4	4.500	.214	193.02	6.00	760	20	48531
	6	6.625	.316	420.57	6.75	360	20	48571
	8	8.625	.410	715.32	8.00	280	16	48591
	10	10.750	.511	1113.26	8.75	160	16	48600
	12	12.750	.606	1568.19	9.50	120	12	48610

20 FT. LAYING LENGTH ± 1".

GASKET JOINT PIPE IS PRODUCED FROM PVC MATERIAL AS PER ASTM D1784.

GASKET JOINT PIPE IS PRODUCED WITH AN INTEGRAL BELL END WITH A REINFORCED GASKET CONFORMING TO ASTM F477.

CONVERSION CHART FOR PRESSURE RATINGS AT VARIOUS TEMPERATURES FOR CRESLINE - PVC PIPE

TEMPERATURE °F	73.4°	80°	90°	100°	110°	120°	130°	140°
CONVERSION FACTOR	1.00	.88	.75	.62	.50	.40	.30	.22

PRESSURE RATING IS THE ESTIMATED MAXIMUM PRESSURE THAT WATER AS THE MEDIUM IN THE PIPE CAN EXERT CONTINUOUSLY WITH A HIGH DEGREE OF CERTAINTY THAT FAILURE OF THE PIPE WILL NOT OCCUR.

DO NOT USE PLASTIC PIPE AND FITTINGS FOR COMPRESSED AIR.

ASSEMBLY:

1. CLEAN AND DRY THE INTERIOR OF GASKET BELL AND THE EXTERIOR OF THE PIPE SPIGOT.
2. APPLY LUBRICANT TO THE SPIGOT END OF THE PIPE. LUBRICATE UP TO THE INSERTION DEPTH RING. DO NOT LUBRICATE THE GASKET.
3. INSERT THE SPIGOT END INTO THE GASKET BELL, MAKING SURE THE TWO LENGTHS ARE ALIGNED. PUSH THE PIPES TOGETHER UNTIL THE SPIGOT DEPTH RING IS FLUSH WITH THE ENTRANCE OF THE BELL.

PRECAUTIONS:

1. BE SURE TO KEEP DIRT OFF LUBRICATED SPIGOT AND OUT OF THE GASKET BELL.
2. THE PIPE SHOULD BE BURIED AT LEAST 24 INCHES BELOW GROUND AND PREFERABLY BELOW THE FROST LINE.
3. INSTALLATION, TRENCHING, THRUST BLOCKING AND BACKFILLING SHOULD BE PERFORMED IN ACCORDANCE WITH ASTM D2774.
4. BE SURE LINE IS PRESSURE TESTED BEFORE BACKFILLING. PIPE SHALL BE ADEQUATELY ANCHORED TO PREVENT MOVEMENT. THE JOINTS AND FITTINGS SHALL REMAIN EXPOSED TO FACILITATE INSPECTION FOR JOINT LEAKAGE.

PALLET QUANTITIES GJ PVC PRESSURE PIPE

PIPE SIZE	FEET PER PALLET	WT. PER PALLET	
		SDR-26	SDR-21
2	2960	1190	1465
2½	1800	1392	1715
3	1160	1393	1706
4	760	918	1115
6	360	1374	1680
8	280	1552	1991
10	160	1456	1782
12	120	1537	1882

GJ BELL DIMENSIONS

PIPE SIZE	SOCKET ENTRANCE LGTH.	SOCKET LENGTH
2	.750	4.250
2½	.875	4.750
3	.875	5.000
4	1.250	6.000
6	1.375	6.750
8	1.750	8.000
10	2.000	8.750
12	2.250	9.500

JOINTS INSTALLED PER QUART OF LUBRICANT

PIPE SIZE	JOINTS
2	125
3	105
4	100
6	70
8	50
10	8
12	6

PPFA MEMBER PLASTIC PIPE AND FITTINGS ASSOCIATION

NSF pw

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CRESLINE®
CRESLINE PLASTIC PIPE CO., INC.

PVC PRESSURE PIPE SCH-40 & SCH-80

FORM NO. 761 LW & HW SPECIFICATIONS

JANUARY, 2016

	SIZE	O.D.	MIN. WALL	WEIGHT PER 100'	SOCKET DEPTH INCHES	FEET PER PALLET	PALLETS PER T.L.	BELLED PART NO.
	½"	.840	.109	16.18	2.000	8400	44	42015
	¾	1.050	.113	21.58	2.125	6600	40	42030
SCH-40	1	1.315	.133	32.00	2.375	5400	32	42046
PRESSURE PIPE	1¼	1.660	.140	43.40	2.750	4000	32	42056
PVC1120	1½	1.900	.145	51.83	3.000	3600	28	42070
ASTM	2	2.375	.154	69.71	3.000	2800	24	42085
D1785	2½	2.875	.203	110.57	3.500	2240	20	42102
	3	3.500	.216	144.82	4.000	1500	20	42111
	4	4.500	.237	213.29	5.000	580	28	47675
NSF pw	6	6.625	.280	375.79	6.500	400	20	47720
	8	8.625	.332	582.30	7.000	280	16	47735
	10	10.750	.365	803.40	7.500	160	16	47745
	12	12.750	.406	1064.45	8.000	120	12	47756
	16	16.000	.500	1658.84	10.000	120	12	47775

STANDARD LENGTH 20' EXCEPT 4", 6", 8", 10", 12" & 16" WHICH ARE 20' LAYING LENGTH. NOT RECOMMENDED FOR THREADING.

SCH-80 PIPE IS FURNISHED IN PLAIN END (PE) 20' LENGTHS.

	½"	.840	.147	20.63	PE	5200	60	43010
	¾	1.050	.154	28.02	PE	4400	48	43025
	1	1.315	.179	41.23	PE	5200	32	43045
SCH-80	1¼	1.660	.191	57.06	PE	4000	32	43065
PRESSURE PIPE	1½	1.900	.200	69.19	PE	2360	40	43080
PVC1120	2	2.375	.218	95.89	PE	1860	32	43095
ASTM	2½	2.875	.276	146.24	PE	1160	36	43115
D1785	3	3.500	.300	195.88	PE	1500	20	43120
	4	4.500	.337	286.26	PE	580	28	43135
	6	6.625	.432	546.56	PE	400	20	43150
NSF pw	8	8.625	.500	830.24	PE	280	16	43165
	10	10.750	.593	1230.78	PE	160	16	43170
	12	12.750	.687	1692.06	PE	120	12	43175

SCH-80 PIPE IS RECOMMENDED FOR THREADING.

PRESSURE RATINGS
FOR CRESLINE - PVC PIPES
AT 73.4° F

SIZE	½	¾	1	1¼	1½	2	2½	3	4	6	8	10	12	16
SCH-40	600	480	450	370	330	280	300	260	220	180	160	140	130	130
SCH-80	850	690	630	520	470	400	420	370	320	280	250	230	230	-

CONVERSION CHART FOR PRESSURE RATINGS
AT VARIOUS TEMPERATURES FOR CRESLINE - PVC PIPE

TEMPERATURE °F	73.4°	80°	90°	100°	110°	120°	130°	140°
CONVERSION FACTOR	1.00	.88	.75	.62	.50	.40	.30	.22

PRESSURE RATING IS THE ESTIMATED MAXIMUM PRESSURE THAT WATER AS THE MEDIUM IN THE PIPE CAN EXERT CONTINUOUSLY WITH A HIGH DEGREE OF CERTAINTY THAT FAILURE OF THE PIPE WILL NOT OCCUR.

DO NOT USE PLASTIC PIPE AND FITTINGS FOR COMPRESSED AIR.

PALLET QUANTITY PVC PRESSURE PIPE

PIPE SIZE	FEET PER PALLET	WT. PER PALLET SCH-40
½"	8400	1360
¾	6600	1425
1	5400	1728
1¼	4000	1736
1½	3600	1866
2	2800	1952
2½	2240	2477
3	1500	2173
4	580	1238
6	400	1504
8	280	1631
10	160	1286
12	120	1278
16	120	1991

PIPE SIZE	FEET PER PALLET	WT. PER PALLET SCH-80
½"	5200	1073
¾	4400	1233
1	5200	2144
1¼	4000	2283
1½	2360	1633
2	1860	1784
2½	1160	1697
3	1500	2939
4	580	1661
6	400	2187
8	280	2325
10	160	1970
12	120	2031

PPFA MEMBER PLASTIC PIPE AND FITTINGS ASSOCIATION

NSF pw

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CRESLINE®
CRESLINE PLASTIC PIPE CO., INC.

PVC PURPLE RECLAIMED WATER PIPE

FORM NO. 761 RW SPECIFICATIONS

JANUARY, 2016

	SIZE	O.D.	MIN. WALL	WEIGHT PER 100'	SOCKET DEPTH INCHES	FEET PER PALLET	PALLETS PER T.L.	BELLED PART NO.
SDR-21	*½"	.840	.062	9.81	2.000	8400	44	57015
SOLVENT WELD	¾	1.050	.060	12.11	2.125	6600	40	57030
RECLAIMED WATER PIPE	1	1.315	.063	16.17	2.375	5400	32	57045
200 PSI	1¼	1.660	.079	25.59	2.750	4000	32	57055
PVC1120	1½	1.900	.090	33.32	3.000	3600	28	57070
ASTM D2241	2	2.375	.113	52.32	3.000	2800	24	57085
	2½	2.875	.137	76.53	3.500	2240	20	57100
	3	3.500	.167	113.71	4.000	1500	20	57110
	4	4.500	.214	192.22	5.000	580	28	57120
	6	6.625	.316	420.11	6.500	400	20	57130

*SDR 13.5 - 315 PSI

	¾"	1.050	.113	21.58	2.125	6600	40	57230
SCH-40	1	1.315	.133	32.00	2.375	5400	32	57245
SOLVENT WELD	1¼	1.660	.140	43.40	2.750	4000	32	57255
RECLAIMED WATER PIPE	1½	1.900	.145	51.83	3.000	3600	28	57270
PVC1120	2	2.375	.154	69.71	3.000	2800	24	57285
ASTM D1785	2½	2.875	.203	110.57	3.500	2240	20	57300
	3	3.500	.216	144.82	4.000	1500	20	57310
	4	4.500	.237	211.35	5.000	580	28	57320

SDR-21 GASKET JOINT RECLAIMED WATER PIPE	SIZE	O.D.	MIN. WALL	WEIGHT PER 100'	SOCKET DEPTH INCHES	FEET PER PALLET	PALLETS PER T.L.	BELLED PART NO.
200 PSI	*3"	3.500	.167	116.68	5.000	1160	20	57180
PVC1120	*4	4.500	.214	193.02	6.000	760	20	57187
ASTM D2241	*6	6.625	.316	420.57	6.750	360	20	57195

*20 FT. LAYING LENGTH ± 1".

GASKET JOINT PIPE IS PRODUCED WITH AN INTEGRAL BELL END WITH A REINFORCED GASKET CONFORMING TO ASTM F477.

CRESLINE RECLAIMED WATER PIPE IS PURPLE IN COLOR.

PPFA MEMBER PLASTIC PIPE AND FITTINGS ASSOCIATION

CRESLINE PLASTIC PIPE CO., INC.

www.cresline.com

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CRESLINE®
CRESLINE PLASTIC PIPE CO., INC.

PVC-DWV PLASTIC PIPE

FORM NO. 761 DWV SPECIFICATIONS

JANUARY, 2016

	SIZE	O.D.	MIN. WALL	WEIGHT PER 100'	FEET PER PALLET	PALLETS PER T.L.	PLAIN END LGTH.	PART NO.
PVC-DWV SCH-40 ASTM D2665 NSF dwv ASTM D1785 NSF pw	1¼"	1.660	.140	43.47	2000	48	10'	50810
					4000	32	20	50205
	1½	1.900	.145	51.92	2590	40	10	50820
					5180	20	20	50215
	2	2.375	.154	69.80	1670	40	10	50830
					3340	20	20	50225
	3	3.500	.216	145.00	750	40	10	50840
					1500	20	20	50235
	4	4.500	.237	206.41	480	40	10	50850
					960	20	20	50245
	6	6.625	.280	363.67	200	40	10	50860
					400	20	20	50255
	8	8.625	.322	547.40	280	16	20	50265
	10	10.750	.365	775.92	160	16	20	50276
	12	12.750	.406	1025.98	120	12	20	50286
	16	16.000	.500	1586.14	120	12	20	50282

PVC IN WALL ASTM D2949 NSF dwv	3"	3.250	.125	79.96	810	40	10'	50380

BELLED END PVC-DWV SCH-40 ASTM D2665	SIZE	O.D.	MIN. WALL	WEIGHT PER 100'	FEET PER PALLET	PALLETS PER T.L.	LGTH.	PART NO.
NSF dwv	4"	4.500	.237	206.41	480	40	10'	50252
					960	20	20	50246
ASTM D1785 NSF pw	6	6.625	.280	363.67	200	40	10	50262
					400	20	20	50258

PERFORATED BELLED END PVC-DWV SCH-40 PIPE IS AVAILABLE.

ADDITIONAL 10% CHARGE IF NOT ORDERED IN PALLET QUANTITIES.

CHECK WITH CRESLINE CUSTOMER SERVICE FOR PRICING ON BELLED END PERFORATED.

CRESLINE PLASTIC PIPE CO., INC.

www.cresline.com

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CRESLINE®
CRESLINE PLASTIC PIPE CO., INC.

PVC-DWV CELLULAR CORE PLASTIC PIPE

FORM NO. 761 DWVCC SPECIFICATIONS — JANUARY, 2015
PRICES ARE LISTED ON FORM MLP-2.
PVC CEMENT ON FORM 466.
PLEASE ORDER BY PART NUMBER.

	SIZE	O.D.	MIN. WALL	WEIGHT PER 100'	FEET PER PALLET	PALLETS PER T.L.	PLAIN END LGTH.	PART NO.
PVC-DWV CELLULAR CORE IPS SCH-40 SERIES ASTM F-891 NSF dwv	1½"	1.900	.145	37.90	2590	40	10'	51820
					5180	20	20	51115
	2	2.375	.154	47.46	1670	40	10	51830
					3340	20	20	51125
	3	3.500	.216	94.25	750	40	10	51840
					1500	20	20	51135
	4	4.500	.237	134.17	480	40	10	51850
					960	20	20	51145
	6	6.625	.280	236.39	200	40	10	51160
					400	20	20	51155
	8	8.625	.322	355.81	280	16	20	51165

BELLED END PVC-DWV CELLULAR CORE ASTM F-891 NSF dwv	SIZE	O.D.	MIN. WALL	WEIGHT PER 100'	FEET PER PALLET	PALLETS PER T.L.	LGTH.	PART NO.
	4"	4.500	.237	134.17	480	40	10'	51153
					960	20	20	51143
	6	6.625	.280	236.39	200	40	10	51163
					400	20	20	51157

PERFORATED BELLED END PVC-DWV CELLULAR CORE PIPE IS AVAILABLE.
NOTE: PVC-DWV CELLULAR CORE PIPE IS NOT FOR USE IN PRESSURE SYSTEMS.

ADDITIONAL 10% CHARGE IF NOT ORDERED IN PALLET QUANTITIES.
CHECK WITH CRESLINE CUSTOMER SERVICE FOR PRICING ON BELLED END PERFORATED PIPE.

PPFA MEMBER PLASTIC PIPE AND FITTINGS ASSOCIATION

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CRESLINE®
CRESLINE PLASTIC PIPE CO., INC.

PVC-DS PIPE - ASTM D-2729

FORM NO. 562 SPECIFICATIONS **DECEMBER, 2010**

WHEN ORDERING ORDER BY PART NUMBER
ADDITIONAL 10% CHARGE IF NOT ORDERED IN PALLET QUANITIES.

	SIZE	O.D.	MIN. WALL	WEIGHT PER 100'	FEET PER PALLET	PALLETS PER T.L.	PART NO. SOLID	PART NO. PERF.
PVC-DS ASTM D-2729 SOLID & PERFORATED	3	3.250	.070	45.45	1000	32	52805	52880
	4	4.215	.075	63.57	900	24	52815	52910
	4*	4.215	.075	63.57	900	24		52935
	6	6.275	.100	126.43	350	24	52155	52260

FURNISHED IN 10' LENGTHS BELLED END.

CRESLINE PVC-DS PIPE CONFORMS TO ASTM D-2729 SPECIFICATIONS.

PERFORATED WITH 2 ROWS OF 5/8" HOLES ON 5" CENTERS 120° APART. MEETS MICHIGAN STANDARD.

***PERFORATED WITH 3 ROWS OF 5/8" HOLES ON 5" CENTERS 120° APART. MEETS INDIANA CODE.**

PVC SOLVENT CEMENT LISTED ON FORM NO. 466.

PRICES ARE LISTED ON CRESLINE MASTER LIST PRICE SHEET FORM NO. MLP-2.

PPFA MEMBER PLASTIC PIPE AND FITTINGS ASSOCIATION

CRESLINE PLASTIC PIPE CO., INC. **www.cresline.com**

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CRESLINE®
CRESLINE PLASTIC PIPE CO., INC.

PVC-PSM SEWER PIPE

FORM NO. 563 SPECIFICATIONS

JANUARY, 2016

	SIZE	O.D.	MIN. WALL	WEIGHT PER 100'	FEET PER PALLET	PALLETS PER T.L.	LGTH.	PART NO.
GASKET JOINT				109.04	1260	18	14'	53726
	4"	4.215	.120	108.05	1200	16	20	53735
PSM SEWER PIPE				244.06	490	18	14	53786
	6	6.275	.180	241.84	700	12	20	53795
SDR-35				438.52	280	18	14	53806
	8	8.400	.240	433.62	400	12	20	53815
ASTM D3034	10	10.500	.300	685.91	168	18	14	53826
	12	12.500	.360	980.09	112	24	14	53836

	4"	4.215	.162	145.64	1260	18	14'	53506
GASKET JOINT	6	6.275	.241	323.01	490	18	14	53526
PSM SEWER PIPE	8	8.400	.323	583.79	280	18	14	53550
SDR-26	10	10.500	.404	913.21	168	18	14	53531
ASTM D3034	12	12.500	.481	1290.43	112	24	14	53541

14' & 20' LAYING LENGTHS. INSERTION DEPTH RING IS MARKED ON THE SPIGOT END OF PIPE.
GASKET JOINT PIPE IS PRODUCED WITH AN INTEGRAL BELL END WITH A REINFORCED GASKET CONFORMING TO ASTM F477.

					900	24	10'	53115
SOLVENT WELD	4"	4.215	.120	105.74	1200	16	20	53118
PSM SEWER PIPE					350	24	10	53180
SDR-35	6	6.275	.180	236.66	700	12	20	53183
ASTM D3034	8	8.400	.240	422.19	200	16	10	53250

SOLVENT WELD					900	24	10'	53416
PSM SEWER PIPE	4"	4.215	.162	141.23	1200	16	20	53425
SDR-26								
ASTM D3034	6	6.275	.241	313.22	350	18	10	53455

PERFORATED SOLVENT WELD PSM SEWER PIPE IS AVAILABLE.

PPFA MEMBER PLASTIC PIPE AND FITTINGS ASSOCIATION

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CRESLINE®
CRESLINE PLASTIC PIPE CO., INC.

FLOWGUARD GOLD® PIPE & FITTINGS
CPVC PIPE

FORM NO. 861 CPVC SPECIFICATIONS **DECEMBER, 2021**

	SIZE	O.D.	MIN. WALL	WEIGHT PER 100'	FEET PER BAG	FEET PER PALLET	LGTH.	PART NO.
HC-CTS TUBING	½"	.625	.068	8.22	500	9000	10'	44905
					1000	18000	20	44907
RIGID	¾	.875	.080	13.87	250	4500	10	44910
					500	9000	20	44912
100 PSI @ 180° F.	1	1.125	.102	22.68	160	2880	10	44915
					320	5760	20	44917
ASTM D2846	1¼	1.375	.125	34.00	90	1620	10	44920
					180	3240	20	44922
NSF pw	1½	1.625	.148	47.60	60	1080	10	44925
					120	2160	20	44927
	2	2.125	.193	81.11	40	720	10	44930
					80	1440	20	44932

AVAILABLE IN BAG QUANTITY ONLY.

PPFA MEMBER PLASTIC PIPE AND FITTINGS ASSOCIATION

CRESLINE PLASTIC PIPE CO., INC. **www.cresline.com**

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CRESLINE®
CRESLINE PLASTIC PIPE CO., INC.

PVC WATER WELL PIPE & CASING

FORM NO. 761 PC SPECIFICATIONS

MARCH, 2019

	SIZE	O.D.	I.D.	MIN. WALL	WEIGHT PER 100'	SOCKET DEPTH INCHES	FEET PER PALLET	PALLETS PER T.L.	PART NO.
SDR-26 WELL CASING ASTM F480 NSF wc	4"	4.500	4.010	.173	156.97	5.0	580	28	47075
	4½	4.950	4.410	.190	190.00	5.5	540	24	47091
	5	5.563	4.950	.214	242.49	7.0	460	24	47107
	6	6.625	5.900	.255	342.71	6.5	400	20	47120
	10	10.750	9.580	.413	904.15	7.5	160	16	47145
	12	12.750	11.350	.490	1274.47	8.0	120	12	47155
	16	16.000	14.250	.616	2026.31	10.0	120	12	47175
SDR-21 WELL CASING ASTM F480 NSF wc	4"	4.500	3.920	.214	192.22	5.0	580	28	47275
	5	5.563	4.850	.265	296.52	7.0	460	24	47307
	6	6.625	5.720	.316	420.11	6.5	400	20	47320
	6¼	6.900	6.020	.329	456.75	7.0	360	20	47974
	8	8.625	7.520	.410	710.96	7.0	280	16	47335
	10	10.750	9.370	.511	1106.58	8.0	160	16	47355
	12	12.750	11.130	.606	1560.36	10.0	120	12	47375
SDR-17 WELL CASING ASTM F480 NSF wc	4½"	4.950	4.200	.291	283.91	5.5	540	24	47491
	5	5.563	4.730	.327	361.10	7.0	460	24	47507
	6	6.625	5.510	.390	512.10	6.5	400	20	47521
	6¼	6.900	5.860	.406	556.41	7.0	360	20	47540
	8	8.625	7.320	.508	875.21	7.0	280	16	47550
SCH-40 WELL CASING ASTM F480 NSF wc	2"	2.375	1.985	.154	69.71	5.0	2800	16	47645
	4	4.500	3.880	.237	213.29	5.0	580	28	47675
	4½	4.950	4.290	.248	245.03	5.5	540	24	47966
	5	5.563	4.860	.258	289.29	7.0	460	24	47707
	6	6.625	5.850	.280	375.79	6.5	400	20	47720
	8	8.625	7.680	.332	582.30	7.0	280	16	47735
	10	10.750	9.680	.365	803.40	7.5	160	16	47745
	12	12.750	11.530	.406	1064.45	8.0	120	12	47756
	16	16.000	14.490	.500	1658.84	10.0	120	12	47775

NOTE: 8" SCH-40 IS DUAL MARKED FOR SDR-26 WELL CASING.

DR-27.6 I.D. WELL CASING ASTM F480	6¼"	6.900	6.180	.250	351.33	7.0	360	20	47975

ALL WELL CASING EXCEPT 2" IS 20 FT. LAYING LENGTHS WITH BELLED END.

RESISTANCE TO HYDRAULIC COLLAPSE PRESSURE DATA (RHCP) IN PSI AND FEET OF WATER		
PIPE DESCRIPTION	**PSI**	**FEET**
SDR-26 (ALL SIZES)	57	132
SDR-21 (ALL SIZES)	111	255
SDR-17 (ALL SIZES)	215	495
2" SCH-40	291	672
4" SCH-40	152	350
4½" SCH-40	130	299
5" SCH-40	102	235
6" SCH-40	74	170
8" SCH-40	57	132
10" SCH-40	39	90
12" SCH-40	32	74
16" SCH-40	30	69

CALCULATED USING ASTM F480

A SUFFICIENT SAFETY MARGIN SHOULD BE USED IN SELECTING A WELL CASING TO ALLOW FOR EXTERNAL HYDRAULIC PRESSURES AND ANY OTHER NORMALLY ANTICIPATED EXTERNAL LOADINGS. IT IS NOT UNCOMMON TO USE A SAFETY FACTOR OF TWO OR GREATER.
CRESLINE WELL CASING SHOULD BE INSTALLED IN ACCORDANCE TO THE GUIDELINES AS STATED IN ASTM F480 AND THE SELECTION AND INSTALLATION OF THERMOPLASTIC WATER WELL CASING MANUAL PUBLISHED BY THE NATIONAL GROUND WATER ASSOCIATION.

PPFA MEMBER PLASTIC PIPE AND FITTINGS ASSOCIATION

NSF WC

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PVC THREADED DROP PIPE

FORM NO. 761 THD SPECIFICATIONS **MARCH, 2019**

PVC SCH-80 THREADED DROP PIPE ASTM D1785 NSF pw	SIZE	O.D.	MIN. WALL	WEIGHT PER 100'	MAX PSI 73°F	FEET PER PALLET	PALLETS PER T.L.	PART NO.
	1"	1.315	.179	41.23	315	2600	44	43056
	1¼	1.660	.191	57.06	260	2000	44	43078
	1½	1.900	.200	69.19	235	2360	40	43085
	2	2.375	.218	95.89	200	1860	32	43100

PVC SCH-120 THREADED DROP PIPE ASTM D1785 NSF pw	SIZE	O.D.	MIN. WALL	WEIGHT PER 100'	MAX PSI 73°F	FEET PER PALLET	PALLETS PER T.L.	PART NO.
	1"	1.315	.200	45.21	360	2600	44	43350
	1¼	1.660	.215	63.12	300	2000	44	43370
	1½	1.900	.225	76.61	270	2360	40	43380
	2	2.375	.250	108.10	240	1860	32	43390

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PVC THREADED DROP PIPE DEPTH GUIDELINES

PVC THREADED SCHEDULE 80 PIPE HORSEPOWER RATINGS - DEPTH CHART						
SIZE	MAX HP	RECOMMENDED FITTINGS	PUMPING LIMITATIONS - BASED ON SHUT-OFF SWITCH			TORQUE ARRESTOR
			40 PSI	50 PSI	60 PSI	
1"	1.5	EXTRUDED COUPLINGS	610'	590'	570'	USE OVER 150'
1 1/4"	2	EXTRUDED COUPLINGS	475'	455'	435'	USE OVER 150'
1 1/2"	5	STEEL OR BRASS COUPLINGS	435'	415'	395'	USE OVER 150'
2"	7.5	STEEL OR BRASS COUPLINGS	350'	325'	300'	USE OVER 150'

PVC THREADED SCHEDULE 120 PIPE HORSEPOWER RATINGS - DEPTH CHART						
SIZE	MAX HP	RECOMMENDED FITTINGS	PUMPING LIMITATIONS - BASED ON SHUT-OFF SWITCH			TORQUE ARRESTOR
			40 PSI	50 PSI	60 PSI	
1"	1.5	EXTRUDED COUPLINGS	700'	675'	650'	USE OVER 150'
1 1/4"	2	EXTRUDED COUPLINGS	570'	545'	520'	USE OVER 150'
1 1/2"	5	STEEL OR BRASS COUPLINGS	500'	480'	455'	USE OVER 150'
2"	7.5	STEEL OR BRASS COUPLINGS	435'	415'	395'	USE OVER 150'

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PLASTIC PIPE SELECTION GUIDE

Bulletin No. PA-1 **February, 2024**

In order to recommend the proper type of Cresline Plastic Pipe, you need to know three things:

1. **What fluid?**
2. **At what pressure?**
3. **At what temperature?**

What Fluid?

All Cresline pipe except Spartan, HD 100, HD 125, Yellow Gas, PVC Reclaimed Water, PVC-DWV Cellular Core, DS and Sewer pipe is approved for drinking water use by the National Sanitation Foundation, so you have no problem when any type of cold water transmission is involved. However, when chemicals are involved, you need to consult the Chemical Resistance Chart (Bulletin No. T-4) to make a proper recommendation. All types of Cresline Plastic Pipe are highly resistant to a wide variety of corrosive chemicals, but some types are better than others. As a further help, typical applications are listed with each type of pipe in this Guide.

NOTE: DO NOT USE PLASTIC PIPE AND FITTINGS FOR COMPRESSED AIR SYSTEMS.

At What Pressure?

A pressure rating is given for all types and sizes of Cresline pipe except PVC-DWV Cellular Core, DS and Sewer where pressure generally is not involved. The pressure rating for each pipe is figured at the industry standard of 73.4º F (about 13º warmer than most drinking water). Cresline pipe has the pressure rating marked right on the pipe. Ratings are listed for each Cresline pipe in this Guide.

At What Temperature?

Pressure ratings go down as temperatures go up. HD 100 pipe, for instance, is pressure-rated at 100 PSI at 73.4º F. It drops to 80 PSI at 100º F, and to 60 PSI at 120º F. Conversely, pressure may be increased to 108 PSI at 60º F and to 115 PSI at 50º F. The maximum recommended temperature for polyethylene and PVC pipe is 140º F.

The pressure ratings for each pipe are figured at 73.4º F. Pressure ratings for transmitting warmer or cooler liquids can be found on the product specification sheets under the table entitled "Conversion Chart for Pressure Ratings at Various Temperatures."

Also keep in mind whether the pipe will be subjected to exterior heat as from the sun or other heat sources and figure maximum allowable pressures accordingly.

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HOW TO USE THIS GUIDE

You can recommend a specific Cresline pipe after you have answers to the three basic questions: What fluid? At what pressure? At what temperature?

There are 7 basic types with a total of 15 variations to choose from:

1. **Cresline Flexible Plastic Pipe**
   Cresline HD
   Cresline CE Blue
   Spartan
   Cresline Yellow Gas Pipe
2. **Cresline PVC Pressure Pipe**
   SDR-26
   SDR-21
   Reclaimed Water Pipe
   Schedule 40
   Schedule 80
3. **Cresline Drain, Waste and Vent Pipe (DWV)**
   PVC-DWV SCH 40 Solid Wall
   PVC-DWV Cellular Core
4. **Cresline PVC Drain and Sewer Pipe (DS)**
5. **Cresline PVC Sewer Pipe**
6. **Cresline CPVC Hot and Cold Pipe (HC)**
7. **Cresline Well Pipe and Casing**

Under each pipe heading you will find the following material to help you:

Resin
General Characteristics
Pressure Rating @ 73.4º F
Available Sizes
Standard Met or Exceeded
Typical Applications

This information will also help you when facing a customer who claims he can get "the same pipe cheaper." You will be able to prove that Cresline prices are competitive for pipe made of the same resin, same pressure rating, and to the same standards as the "other brand."

Finally, you will find a Chemical Resistance Chart (Bulletin No. T-4) listing some 500 chemicals alphabetically and the resistance of each type of Cresline pipe to them. This will be most helpful in recommending pipe for industrial use.

CRESLINE HD

Resin: Polyethylene PE 4710 (High Density).
General Characteristics: Lighter in weight than medium density pipe because less material is required to produce equal working pressure.

HD 250
Pressure Rating Per Sq. Inch @ 73.4º F: 250 PSI
Available Sizes: ¾", 1", 1¼", 1½", 2"

HD 200
Pressure Rating Per Sq. Inch @ 73.4º F: 200 PSI
Available Sizes: ¾", 1", 1¼", 1½", 2".

HD 160
Pressure Rating Per Sq. Inch @ 73.4º F: 160 PSI
Available Sizes: ½", ¾", 1", 1¼", 1½", 2".

HD 125
Pressure Rating Per Sq. Inch @ 73.4º F: 125 PSI
Available Sizes: ¾", 1", 1¼", 1½", 2"

HD 100
Pressure Rating Per Sq. Inch @ 73.4º F: 100 PSI
Available Sizes: 1", 1¼", 1½", 2".

HD-CTS (AWWA C-901)
Pressure Rating Per Sq. Inch @ 73.4º F: 250 PSI
Available Sizes: ¾", 1", 1¼", 1½", 2".

Meets or Exceeds Following Standards: ASTM D2239 and ASTM D2737. HD 160, HD 200, and HD250 are NSF-PW approved. HD 100 and HD 125 are NSF-IRG approved.

Typical Applications:	**farm and ranch water systems**	**sprinkler systems**
	electrical and cable TV conduit	**irrigation**
	construction and excavations	**skating rinks**
	municipal service lines	**air conditioning**
	mine and industrial drainage	**submersible pumps**

CRESLINE CE BLUE®

Resin: Polyethylene PE 4710 (High Density).
General Characteristics: Lighter in weight than medium density pipe because less material is required to produce equal working pressure. Solid blue color.

CE BLUE 250
Pressure Rating Per Sq. Inch @ 73.4º F: 250 PSI
Available Sizes: ¾", 1", 1¼"

CE BLUE 200
Pressure Rating Per Sq. Inch @ 73.4º F: 200 PSI
Available Sizes: ¾", 1", 1¼".

CE BLUE CTS (AWWA C-901)
Pressure Rating Per Sq. Inch @ 73.4º F: 250 PSI
Available Sizes: ¾", 1", 1¼", 1½", 2".

Meets or Exceeds Following Standards: ASTM D2239 and ASTM D2737. NSF approval for drinking water use.

Typical Applications:	**farm and ranch water systems**	**sprinkler systems**
	electrical and cable TV conduit	**irrigation**
	construction and excavations	**skating rinks**
	municipal service lines	**air conditioning**
	mine and industrial drainage	**submersible pumps**

CRESLINE YELLOW GAS PIPE

Resin: Polyethylene PE 2708 (Medium Density).
General Characteristics: Medium density polyethylene gas piping with a long life expectancy.

SDR 7
Available Sizes in CTS: ½".

SDR 9.3
Available Sizes in IPS: ½".

SDR 10
Available Sizes in IPS: 1¼".

SDR 11
Available Sizes in CTS: 1".
Available Sizes in IPS: ¾", 1", 1¼", 1½", 2".

Meets or Exceeds Following Standards: ASTM D2513.

Typical Applications: Outdoor, underground gas service

CRESLINE PVC PRESSURE PIPE

Resin: PVC 1120 (Polyvinyl Chloride).
General Characteristics: Rigid. Good impact strength. May be used for drinking water and is NSF approved. It has a variety of uses where corrosion is a problem.

SDR-26
Pressure Rating Per Sq. Inch @ 73.4º F: 160 PSI
Available Sizes: 1¼", 1½", 2", 2½", 3", 4", 6", 8", 10", 12", 16". Solvent Weld and Gasket Joint.
Meets or Exceeds Following Standards: ASTM D2241. NSF approval for drinking water use.

SDR-21
Pressure Rating Per Sq. Inch @ 73.4º F: 200 PSI (*SDR-13.5 315 PSI).
Available Sizes: ½"*, ¾", 1", 1¼", 1½", 2", 2½", 3", 4", 6", 8", 10", 12". Solvent Weld and Gasket Joint.
Meets or Exceeds Following Standards: ASTM D2241. NSF approval for drinking water use.

Schedule 40
Pressure Rating Per Sq. Inch @ 73.4º F: 130 PSI to 600 PSI, depending on size of pipe. (See Specification Sheet 761 LW and HW).
Available Sizes: ½", ¾", 1", 1¼", 1½", 2", 2½", 3", 4", 6", 8" 10", 12", 16".
Meets or Exceeds Following Standards: ASTM D1785 NSF approval for drinking water use.

Schedule 80
Pressure Rating Per Sq. Inch @ 73.4º F: 230 PSI to 850 PSI, depending on size of pipe. (See Specification Sheet 761 LW and HW).
Available Sizes: ½", ¾", 1", 1¼", 1½", 2", 2½", 3", 4", 6", 8", 10", 12".
Meets or Exceeds Following Standards: ASTM D1785 NSF approval for drinking water use.

Typical Applications:

- submersible pumps
- jet pumps
- water service lines
- farm and ranch water systems
- construction and excavations
- industrial application
- irrigation
- electrical conduit
- swimming pools
- sprinkler systems
- well pipe and casing
- municipal water systems

CRESLINE RECLAIMED WATER PIPE

Resin: PVC 1120 (Polyvinyl Chloride).
General Characteristics: Rigid. Good impact strength. To be used in reclaimed water applications.

SDR-21
Pressure Rating Per Sq. Inch @ 73.4º F: 200 PSI (*SDR-13.5 315 PSI).
Available Sizes: ½"*, ¾", 1", 1¼", 1½", 2", 2½", 3", 4", 6" Solvent Weld and 3", 4", 6" Gasket Joint.
Meets or Exceeds Following Standards: ASTM D2241. NSF approval for reclaimed water use.

Schedule 40
Pressure Rating Per Sq. Inch @ 73.4º F: 130 PSI to 600 PSI, depending on size of pipe. (See Specification Sheet 761 LW and HW).
Available Sizes: ¾", 1", 1¼", 1½", 2", 2½", 3", 4".
Meets or Exceeds Following Standards: ASTM D1785. NSF approval for reclaimed water use.

Typical Applications: irrigation

CRESLINE PVC-DWV and CELLULAR CORE

Resin: PVC 1120 (Polyvinyl Chloride).
General characteristics: Rigid. High chemical resistance. Self-extinguishing, will not support combustion. Reduces installation and maintenance costs. Available in SCH 40 solid wall and cellular core.
Available Sizes: 1¼", 1½", 2", 3", 4", 6", 8", 10", 12", 16".
Meets or Exceeds Following Standards: NSF DWV approval, ASTM D2665, ASTM D1785 Dual Marked and ASTM F891 Cellular Core.

Typical Applications: Interior drainage systems in:

- prefabricated homes
- new homes
- home remodeling
- mobile homes
- commercial buildings
- apartments

CRESLINE PVC DRAIN & SEWER PIPE (DS)

Resin: PVC 1120 (Polyvinyl Chloride).
General Characteristics: Tough, durable, strong. Root-, moisture-, corrosion-proof.
Available Sizes: 3", 4", 6". Solid and Perforated.
Meets or Exceeds Following Standards: ASTM D2729.

Typical Applications:

- building sewers and underground building drains for home and industry
- building storm sewers for home and industry
- disposal fields for septic tank drains and leaching systems
- subsoil drains for lowland and surface water drainage

CRESLINE PVC SEWER PIPE

Resin: PVC 1120 (Polyvinyl Chloride).
General Characteristics: Rigid. Extremely resistant to corrosive liquids. Reduces installation and maintenance costs.
Available Sizes: 4", 6", 8", 10", 12". Solvent Weld and Gasket Joint. Perforated available upon request.
Meets or Exceeds Following Standards: ASTM D3034.

Typical Applications: **sewer mains**
sewer service

CRESLINE HC PIPE (HOT AND COLD)

Resin: CPVC 4120 (Chlorinated Polyvinyl Chloride).
General Characteristics: Rigid. Non-Corrosive. Lightweight. Excellent insulation properties. High water temperature resistance.
Pressure rating Per Sq. Inch: 100 PSI @ 180º F
Available Sizes: ½", ¾", 1", 1¼", 1½", 2".
Meets or Exceeds: ASTM D2846. NSF approval for drinking water use.

Typical Applications: Hot and cold water service lines.

CRESLINE PVC WATER WELL PIPE AND CASING

Resin: PVC 1120 (Polyvinyl Chloride).
General Characteristics: Rigid. Good impact strength. NSF approved for drinking water. It has a variety of pump uses where corrosion, cost and weight are factors.

PVC Sch 80 & Sch 120 Threaded Well Pipe.
Pressure Rating Per Sq. Inch @ 73.4º F: 200 to 360 PSI depending on size of pipe. (See 761 THD Specification Sheet).
Available Sizes: 1", 1¼", 1½", 2". Threaded ends are chamfered for ease of installation. Shipped with protective caps on pipe to prevent thread damage.
Meets or Exceeds Following Standards: ASTM D1785. NSF approval for drinking water.

Typical Applications: **submersible pumps**
jet pumps
pressure systems

PVC Water Well Casing
Available Sizes: 2", 4", 4½", 5", 6", 8", 10", 12", 16", 6¼" I.D.
Available Ratings: SDR 26, SDR 21, SDR 17, SCH 40, DR 27.6.
Meets or Exceeds Following Standards: ASTM F480. NSF approval for drinking water and well casing.
Features: 20' hanging lengths. Belled end. Chamfered on spigot end with insertion depth ring and deep bell.

Typical Applications: **well casing**
well liners
pressure systems
irrigation

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GENERAL INFORMATION ON ALL CRESLINE PIPES

Bulletin No. T-1 February, 2024

PRESSURES AND TEMPERATURES: In selecting any type of plastic pipe for any installation, consideration must be given to pressure ratings and temperatures. Pressure ratings go **down** as temperatures go up. Exposure to weather temperature variations, heat of sun, or other heat factors should always be taken into account. All Cresline Specification Sheets include "Pressure Rating" tables for the respective pipes.

CHEMICAL RESISTANCE: All types of Cresline plastic pipe are highly resistant to a wide variety of corrosive chemicals. As a guide for the type of Cresline pipe best suited to resist corrosion of a specific chemical, please refer to the Chemical Resistance Chart, Bulletin No. T-4. When consulting the Chart, please bear in mind that plastic pipe is not a "cure all" and, in some cases, may only provide longer life.

OILS AND SOAPS: Cresline PVC pipe is the type best suited for handling most of these materials. Cresline polyethylene pipe is not recommended for the transmission of these materials.

PLASTIC THREADED CONNECTIONS: When threading plastic to plastic or plastic to steel, precaution should be taken to prevent excessive tightening, causing damage to the plastic fitting. **The correct degree of tightness may be determined by threading the connection two turns past finger tight.** Do not use Pipe dope. However, the use of Teflon tape is recommended.

BENDING: In bending Cresline PVC, excellent results can be obtained by heating the pipe in a fluid bath or hot air oven at 225° F. for five minutes and bending it around a form of corresponding radius. To prevent flattening, the pipe can be filled with sand or bent around a pipe bending form grooved to the depth and the same radius as the outside diameter of the pipe. Due to a certain amount of recovery, the pipe should be bent beyond design to allow for this spring-back. After bending, the pipe should be cooled with water while still on the form. Do not use PVC pipe that has been bent in a pressure system.

NOTE: DO NOT USE PLASTIC PIPE AND FITTINGS FOR COMPRESSED AIR SYSTEMS.

(OVER)

EXPANSION AND CONTRACTION: Highly important is the variation in length of plastics when temperature is changing. This fact should always be taken into account when installing pipe lines. The following figures may be used as a guide to determine expansion and contraction:

PVC----------4" per 1000' per 10º F temperature change

HD & SP (Polyethylene)----------11" per 1000' per 10º F temperature change

HC (CPVC)----------4" per 1000' per 10º F temperature change

(Above applies to all pipe sizes)

SUPPORTS: Special care must be exercised in the spacing of supports on horizontal runs of plastic pipe. Supports should have a reasonably broad contact surface. Wires and rods are not recommended if in direct contact with the pipe.

The following table is based on PVC SCH 40 pipe filled with water (from ASTM F645).

PIPE SIZE	SPACING ---- FT.		
	AT 73º F	AT 100º F	AT 140º F
1/2"	4	3 3/4	3 1/2
3/4"	4 1/4	4 1/4	4
1"	4 3/4	4 1/2	4 1/4
1 1/4"	5 1/4	5	4 3/4
1 1/2"	5 1/2	5 1/4	5
2"	6	5 1/4	5 1/2
2 1/2"	7	6	6
3"	7 1/4	7	6 1/2
4"	8	7 3/4	7 1/4
6"	9 1/4	9	8 1/2
8"	10 1/4	10	9 1/2
10"	11 1/4	10 3/4	10 1/4
12"	12	11 3/4	11

For Cresline polyethylene pipe, use twice the number of supports.

For fluids twice the specific gravity, use twice the number of supports suggested above.

For Schedule 80 pipe, spacing may be increased 20%.

For SDR 26, SDR 21, decrease spacing 25% - 50%.

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INSTALLATION AND HANDLING OF CRESLINE PLASTIC PIPE

Bulletin No. T-2 May, 2016

HOW TO INSTALL FLEXIBLE PIPE

FOUR EASY STEPS

1. **CUT IT**
2. **JOIN IT**
3. **CLAMP IT**
4. **LAY IT**

HOW TO INSTALL SOLVENT CEMENTED PIPE

1. **CUTTING THE PIPE:** Use a fine tooth saw and make sure the pipe is cut square. Use a knife or abrasive paper to remove all burrs.

2. **CLEAN THE PIPE AND FITTING:** Use a clean dry cloth to clean the pipe surface and fitting socket to be joined.

3. **DRY TEST THE FIT:** The pipe should enter the fitting or bell to 1/3 - 1/2 of the socket depth.

4. **APPLICATION OF PRIMER:** Remove the gloss from pipe and fittings by wiping with primer.

(OVER)

NOTE: SOLVENT CEMENTS ARE HIGHLY VOLATILE AND HYGROSCOPIC. THE COVER SHOULD BE KEPT TIGHTLY ON THE CAN WHEN THE SOLVENT IS NOT BEING USED. INSPECTION OF THE SOLVENT CEMENT FROM TIME TO TIME FOR THE PRESENCE OF WATER AND/OR EXCESS THICKENING SHOULD BE MADE. IF EITHER CONDITION IS EVIDENT, THE SOLVENT CEMENT SHOULD NO LONGER BE USED.

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3801 East Hwy. 31	**Corsicana, TX 75109**	**903-872-8475**	**Fax 903-872-7732**

5. **APPLICATION OF CEMENT:** Use a natural bristle brush with a width of at least 1/2 the nominal pipe size. Daubers may be used with pipe sizes through 1-1/4" only. Cresline solvent cements are **NOT** interchangeable. Be sure to use the solvent cement intended for the type of pipe being joined. Solvent cement is fast drying and must be applied as quickly as possible. Apply a uniform **LIGHT** coat of cement to the inside of the fitting. Extra caution is required when applying solvent cement to belled end pressure pipe because too much cement in the bell portion of the pipe will cause puddling and could result in a leak when the system is pressurized. Apply a **LIBERAL** coat of cement to the outside of the pipe and immediately stab the pipe into the fitting. A slight rotating motion (1/4 turn) is used during assembly. The joint should be held together for several minutes to keep the pipe from backing out of the fitting or bell. Excess cement should be wiped from the joint.

6. **SET TIME:** Allow the newly assembled joints to carefully set before pressure testing:

30 Minutes at 60-100º F.
1 Hour at 40-60º F.
2 Hours at 20-40º F.
4 Hours at 1-20º F.

7. **CURE TIME:** It requires approximately 24 hours for the solvent cement joints to thoroughly cure. The system should not be put under working or test pressures until 24 hours has elapsed. If the joints have been carefully made, there will be no leaks, as properly made joints are as strong and reliable as the pipe itself.

8. **STORAGE:** Solvent cements should be stored in a cool place except when actually in use at the job site. These cements have a limited shelf life and inventories must be constantly rotated.

PIPE HANDLING AND INSTALLATION

1. **STORING:** Pipe should be stored so as to support the pipe for its full length.

2. **HANDLING AND TRANSPORTATION:** Plastic pipe should not be subjected to rough handling or abuse because it is susceptible to damage by abrasion and gouging. Practices of dragging the pipe should be avoided. The pipe should be transported on flat-bed trucks and supported so as not to cause undue strain or damage during transportation. Damaged portions of pipe should be cut out and destroyed.

3. **TRENCHING:** The pipe should be buried deep enough to protect it from freezing and mechanical damage. Water lines should be buried at least 12" below the maximum expected frost penetration and a minimum of 24 inch cover should be maintained for lines subject to traffic or live loads. The trench width should be wide enough to allow for snaking, if necessary, and the trench bottom should be flat, smooth and free of rocks. It is advisable to pad the trench with sand or compacted fine soils.

4. **INSTALLATION:** Allow for the proper solvent cement "set time" before handling the pipe. The pipe should be snaked in the trench to allow for expansion and contraction. It should be supported continuously with fine (particle size of 1/2" or less), firm (compacted), layers of stable backfill.

5. **TESTING:** After the proper "cure time," it is recommended that the piping system be subjected to a hydrostatic test at normal working conditions **BEFORE** backfilling. In testing, a pressure gage, shut-off valve and safety valve should be installed between the source and new line. Before pressure is applied, ALL **AIR MUST BE REMOVED FROM THE LINE.** Damaged or defective pipe should be repaired before backfilling.

6. **FINAL HOOK-UP:** The line should be flushed free of sand, dirt or other foreign material that may have entered the pipe during installation. The line should be equipped with a pressure regulator to protect it from working pressures and surges that would exceed the recommended working pressures of the piping system. The piping should be cooled to ground temperatures before making the final connection and backfilling.

7. **BACKFILLING:** Should be done during the coolest part of the day. Use clean backfill with particle sizes of 1/2" or less to surround the pipe. Layer and compact the backfill to sufficiently develop uniform soil forces. It may be advisable to have the system under pressure during backfilling.

If the above precautions are followed, you will find plastic pipe will give many years of corrosion-free service.

CRESLINE®
CRESLINE PLASTIC PIPE CO., INC.

TYPICAL PROPERTIES OF CRESLINE PLASTIC PIPE MATERIALS

BULLETIN NO. T-3 May, 2016

Properties	Units	Test Method	Polyethylene PE 4710	ABS	PVC-1	CPVC
PHYSICAL						
Specific Gravity		D1505	.959	1.03	1.41	1.52
Tensile Strength — Yield — Break	psi	D638	3,625 5,500	5,200	7,000	7,800
Impact Strength						
Izod Notched 73°F — 40°F	ft. lbs./in. notch	D256	9.0	8.3	1.5 0.3	6.3
Flexural Strength	psi	D790		8,500	12,000	14,000
Flexural Modulus 73°F	psi	D790	150,000	267,000	400,000	427,000
Hardness — Rockwell Shore	R— Scale D	D785 D2240	 55-70	102	115	120
Elongation % at Break			>600	150		
Cell Classification			445576C	42222	12454	24447
THERMAL						
Thermal Conductivity	BTU/hr./ft^2 /°F/in.	C177	3.1	2.56	1.46	
Heat Distortion 264 psi Load 66 psi Load	°F	D648		 174 199	 158 171	 212
Thermal Coefficient Of Expansion	in./in./ °F	D696	$12.0x10^{-5}$	$6.0x10^{-5}$	$3.0x10^{-5}$	$3.4x10^{-5}$
ELECTRICAL						
Dielectric Strength	Volts/Mil	D149	600-700		450	
Dielectric Constant 60 Hz		D150	 $2.30\text{-}2.32x10^5$	 3.54		
Power Factor 60 CPS 1000 CPS 10^6 CPS		D150		 0.005 0.006		
Volume Resistivity	Ohms/cm.		10^{16}	$3.5x10^{16}$		
MISCELLANEOUS						
Water Absorption - 24 Hrs.	% Weight	D570	0.0003	0.2	0.35	0.02
Burning Rate	In./min.	D635		1.24	Self Exting.	Self Exting.

NOTE: The Data listed in this chart pertains particularly to the raw materials from which the various types of Cresline Pipe are made and are compilations of available property data.

CRESLINE®

CRESLINE PLASTIC PIPE CO., INC.

CHEMICAL RESISTANCE CHART

BULLETIN T-4 SEPTEMBER, 2000

CODE: R - RECOMMENDED L - LIMITED NR - NOT RECOMMENDED BLANK SPACES - LACK OF DATA

NOTE: THE DATA LISTED IS BASED ON INFORMATION FURNISHED BY THE RAW MATERIAL MANUFACTURERS. IN GENERAL, THE RECOMMENDATIONS ARE BASED ON IMMERSION TESTS MADE ON SAMPLES OF RAW MATERIAL RATHER THAN FINISHED PIPE. FACTORS SUCH AS STRESS LEVELS AND SERVICE CONDITIONS CAN AFFECT SERVICE LIFE; THEREFORE, IT IS RECOMMENDED THAT PIPE ASSEMBLIES BE TESTED UNDER ACTUAL SERVICE CONDITIONS FOR CRITICAL APPLICATIONS. THIS INFORMATION IS INTENDED AS A SCREENING TOOL AND DOES NOT CONSTITUTE A GUARANTEE OF PERFORMANCE.

	POLYETHYLENE		PVC-1		ABS	CPVC	
REAGENT	73ºF	140º	73ºF	140º	73ºF	73ºF	180º
ACETALDEHYDE	R	L	NR	NR	NR	NR	NR
ACETIC ACID, PURE			NR	NR			
ACETIC ACID, 10%	R	R	R	R	R	R	R
ACETIC ACID, 20%	R	L	R	R	NR	L	L
ACETIC ACID, 80%	R	L	R	NR	NR	L	L
ACETIC ACID, GLACIAL	R	NR	R	NR	NR	NR	NR
ACETIC ANHYDRIDE	R	R	NR	NR	NR	NR	NR
ACETONE	R	R	NR	NR	NR	NR	NR
ACETYL NITRILE			NR	NR		NR	NR
ACETYLENE			NR	NR	R		
ACRYLIC ACID ETHYL ESTER			NR	NR		NR	NR
ADIPIC ACID			R	R		R	R
ALCOHOLS METHYL	R	R	R	R	NR	L	L
BUTYL	R	R	R	R	NR	L	L
PROPYL	R	R	R	R	R	L	L
ALLYL ALCOHOL, 96%			R	L	NR	L	L
ALLYL CHOLRIDE			NR	NR		NR	NR
ALUM	R	R	R	R		R	R
ALUM, CHROME	R	R	R	R		R	R
ALUM, POTASSIUM	R	R	R	R		R	R
ALUMINUM ALUM	R	R	R	R		R	R
ALUMINUM CHLORIDE	R	R	R	R	R	R	R
ALUMINUM FLUORIDE	R	R	R	NR	R	R	R
ALUMINUM HYDROXIDE	R	R	R	R	R	R	R
ALUMINUM OXYLCHLORIDE			R	R		R	R
ALUMINUM NITRATE			R	R		R	R
ALUMINUM SULFATE	R	R	R	R	R	R	R
AMINES						NR	NR
AMMONIA (GAS -DRY)	R	R	R	R	NR	NR	NR
AMMONIA (LIQUID)			NR	NR	R	NR	NR
AMMONIUM ACETATE	R	R	R	NR	R	R	R
AMMONIUM ALUM	R	R	R	R		R	R
AMMONIUM BIFLUORIDE			R	R		R	R
AMMONIUM BISULFATE			R	R			
AMMONIUM CARBONATE	R	R	R	R		R	R
AMMONIUM CHLORIDE	R	R	R	R	R	R	R
AMMONIUM DICHROMATE			R			R	R
AMMONIUM FLUORIDE, 25%	R	R	R	L	R	R	R
AMMONIUM HYDROXIDE	R	R	R	R		R	R
AMMONIUM HYDROXIDE, 10%			R	R	R	NR	NR
AMMONIUM HYDROXIDE, 28%			R	R		NR	NR
AMMONIUM METAPHOSPHATE	R	R	R	R		R	R
AMMONIUM NITRATE	R	R	R	R	R	R	R

REAGENT	POLYETHYLENE		PVC-1		ABS	CPVC	
	73ºF	140º	73ºF	140º	73ºF	73ºF	180º
AMMONIUM PERSULFATE	R	R	R	R		R	NR
AMMONIUM PHOSPHATE	R	R	R	R	R	R	L
AMMONIUM SULFATE	R	R	R	R	R	R	R
AMMONIUM SULFIDE	R	R	R	R	R	R	R
AMMONIUM THIOCYANATE	R	R	R	R	R	R	R
AMYL ACETATE	L	NR	NR	NR	NR	NR	NR
AMYL ALCOHOL	R	R	NR	NR		L	L
AMYL CHLORIDE	L	NR	NR	NR	NR	NR	NR
ANILINE	R	NR	NR	NR	NR	NR	NR
ANILINE CHLOROHYDRATE			NR	NR		NR	NR
ANILINE HYDROCHLORIDE			NR	NR		NR	NR
ANTHRAQUINONESULFONIC ACID	R		R	R		R	R
ANTIMONY TRICHLORIDE			R	R		R	R
AQUA REGIA	L	NR	L	NR	NR	R	NR
AROMATIC HYDROCARBONS	NR	NR	NR	NR		NR	NR
ARSENIC ACID, 80%			R	R		R	R
ARSENIC TRIOXIDE (POWDER)			R				
ARYLSULFONIC ACID			R	R			
BARIUM CARBONATE	R	R	R	R	R	R	R
BARIUM CHLORIDE	R	R	R	R	R	R	R
BARIUM HYDROXIDE (10%)	R	R	R	R	R	R	R
BARIUM NITRATE	R	R	R		R	R	R
BARIUM SULFATE	R	R	R	R	R	R	R
BARIUM SULFIDE	R	R	R	R	R	R	R
BEER	R	R	R	R	R	R	R
BEET SUGAR LIQUORS	R		R	R		R	R
BENZALDEHYDE, 10%	R	L	R	NR	NR	NR	NR
BENZALDEHYDE, ABOVE 10%	R	L	NR	NR	NR	NR	NR
BENZALKONIUM CHLORIDE			R				
BENZENE	L	NR	NR	NR	NR	NR	NR
BENZOIC ACID	R	R	R	R	R	L	NR
BISMUTH CARBONATE	R	R	R	R		R	R
BLACK LIQUOR	R	R	R	R		R	R
BLEACH (12% CI)	R	NR	R	R	R	R	R
BORAX	R	R	R	R	R	R	R
BORIC ACID	R	R	R	R	R	R	R
BREEDER PELLETS (FISH DERIV.)			R	R		R	R
BRINE (ACID)	R	R	R	R		R	R
BROMIC ACID, 10%	R	R	R	R			
BROMINE, LIQUID	L	NR	NR	NR	R	NR	NR
BROMINE, VAPOR (25%)			R	R			
BROMINE WATER			R	R		L	L
BROMOBENZENE			NR	NR		NR	NR
BROMOTOLUENE			NR	NR		NR	NR
BUTADIENE	NR	NR	R	R			
BUTANE			R	R			
BUTANOL, PRIMARY			R	R		L	L
BUTANOL, SECONDARY			R	NR		L	L
BUTYL ACETATE	L	NR	NR	NR	NR	NR	NR
BUTYL ALCOHOL	R	R	R	R			
BUTYL CELLOSOLVE			R			NR	NR
BUTYL PHENOL	L	L	R	NR			
BUTYL STEARATE			R				
BUTYNEDIOL			R	NR			
BUTYRIC ACID	R	R	R	NR	NR	NR	NR
CADMIUM CYANIDE			R	R			
CAFFEINE CITRATE (SAT.)	R	R	R				
CALCIUM BISULFIDE	R	R	NR	NR		R	R
CALCIUM BISULFITE			R	R		R	R
CALCIUM BISULFITE BLEACH LIQUOR			R				
CALCIUM CARBONATE	R	R	R	R		R	R
CALCIUM CHLORATE	R	R	R	R		R	R
CALCIUM CHLORIDE	R	R	R	R	R	R	R

REAGENT	POLYETHYLENE		PVC-1		ABS	CPVC	
	73ºF	140º	73ºF	140º	73ºF	73ºF	180º
CALCIUM HYDROXIDE	R	R	R	R	R	R	R
CALCIUM HYPOCHLORITE	R	R	R	R	R	R	R
CALCIUM NITRATE	R	R	R	R		R	R
CALCIUM OXIDE			R	R		R	R
CALCIUM SULFATE	R	R	R	R	R	R	R
CAMPHOR (CRYSTALS)	R	R	R		L		
CANE SUGAR LIQUORS	R	R	R	R		R	R
CARBITOL			R			NR	NR
CARBON DIOXIDE	R	R	R	R	R	R	R
CARBON DIOXIDE-AQUEOUS SOLUTION	R	R	R	R	R		
CARBON DISULFIDE	L	NR	NR	NR	NR	NR	NR
CARBON MONOXIDE	R	R	R	R		R	R
CARBON TETRACHLORIDE	NR	NR	R	NR	NR	NR	NR
CARBONIC ACID	R	R	R	R		R	R
CASTOR OIL	R	R	R	R		NR	NR
CAUSTIC POTASH			R	R	R	R	R
CELLOSOLVE			R	NR		NR	NR
CELLOSOLVE ACETATE			R			NR	NR
CHLORACETIC ACID			R	R			
CHLORAL HYDRATE			R	R		R	R
CHLORAMINE			R				
CHLORIC ACID, 20%			R	R		R	R
CHLORIDE (WATER)			R	R			
CHLORINATED SOLVENTS			NR			NR	NR
CHLORINE (DRY-LIQUID)			NR	NR	NR	NR	NR
CHLORINE (LIQUID) (UNDER PRESSURE)	L	NR	NR		NR	NR	NR
CHLORINE GAS (DRY)	NR	NR	NR	NR	NR	NR	NR
CHLORINE GAS (WET)	NR	NR	NR	NR	NR	NR	NR
CHLORINE WATER	L	L	R	R		R	NR
CHLOROACETIC ACID			R		NR		
CHLOROACETYL CHLORIDE			R				
CHLOROBENZENE	L	NR	NR	NR	NR	NR	NR
CHLOROFORM	NR	NR	NR	NR	NR	NR	NR
CHLOROPICRIN			NR	NR			
CHLOROSULFONIC ACID	NR	NR	R	NR			
CHLOROX BLEACH SOLUTION			R				
CHROME ALUM	R	R	R	R		R	R
CHROMIC ACID, 10%	R	L	R	R	R	R	R
CHROMIC ACID, 50%	R	L	NR	NR	NR	R	R
CHROMIC/NITRIC ACID, 15%-35%			R	R			
CHROMIC/SULFURIC/WATER, 50/15/35			R	NR			
CITRIC ACID	R	R	R	R	R	R	R
COCONUT OIL ALCOHOL	R	R	R	R		NR	NR
COPPER CARBONATE	R	R	R	R		R	R
COPPER CHLORIDE	R	R	R	R	R	R	R
COPPER CYANIDE	R	R	R	R		R	R
COPPER FLUORIDE	R	R	R	R		R	R
COPPER NITRATE	R	R	R	R		R	R
COPPER SULFATE	R	R	R	R	R	R	R
CORN SYRUP	R	R	R	R			
COTTONSEED OIL	R	R	R	R	R	NR	NR
CREOSOTE			NR	NR		NR	NR
CRESOL	R	L	NR	NR	NR	NR	NR
CRESYLIC ACID, 50%			R	R		R	
CROTONALDEHYDE	NR	NR	NR	NR		NR	NR
CRUDE OIL*	L	L	R	R		R	R
CUPRIC FLUORIDE			R	R		R	R
CUPRIC SULFATE			R	R	R	R	R
CUPROUS CHLORIDE	R	R	R	R	R	R	R
CYCLANONES			R	R			
CYCHLOHEXANE	NR	NR	NR	NR	R	NR	NR
CYCLOHEXANOL			NR	NR	L	NR	NR
CYCLOHEXANONE	NR	NR	NR	NR	NR	NR	NR

REAGENT	POLYETHYLENE		PVC-1		ABS	CPVC	
	73ºF	140º	73ºF	140º	73ºF	73ºF	180º
D.D.T. (XYLENE BASE)			NR	NR			
DESOCYEPHEDRINE HYDROCHLORIDE			R				
DETERGENTS	R	R	R	R		L	NR
DEXTRIN	R	R	R	R		R	R
DEXTROSE	R	R	R	R		R	R
DIACETONE ALCOHOL			NR				
DIAZO SALTS			R	R		R	R
DIBUTOXY ETHYL PHTHALATE			NR	NR		NR	NR
DIBUTYL PHTHALATE	R	L	NR	NR	NR	NR	NR
DIBUTYL SEBACATE	R	L	R	NR			
DICHLOROBENZENE	NR	NR	NR	NR	NR	NR	NR
DIESEL FUELS*	R	L	R	R		R	R
DIETHYL ETHER	L	L	R		NR	NR	NR
DIGLYCOLIC ACID			R	R			
DIMETHYL HYDRAZINE			NR	NR			
DIMETHYLAMINE	L	L	R	R		NR	NR
DIOCTYLPHTHALATE	L	L	NR	NR	NR	NR	NR
1,4 - DIOXANE	R	R	NR	NR	L		
DISODIUM PHOSPHATE	R	R	R	R		R	R
DISTILLED WATER			R	R	R	R	R
EPSOM SALT	R		R				
ESTERS			NR	NR	NR	NR	NR
ETHERS	L	L	NR	NR	NR	NR	NR
ETHYL ACETATE	L	L	NR	NR	NR	NR	NR
ETHYL ACRYLATE			NR	NR		NR	NR
ETHYL ALCOHOL	R	R	R	R	NR	R	R
ETHYL CHLORIDE	L		NR	NR		NR	NR
ETHYL CHLOROACETATE			NR	NR	NR		
ETHYL ETHER	L		NR	NR		NR	NR
ETHLYENE BROMIDE			NR	NR		NR	NR
ETHYLENE CHLOROHYDRIN			NR	NR		NR	NR
ETHYLENE DICHLORIDE	NR	NR	NR	NR	NR	NR	NR
ETHYLENE GLYCOL	R	R	R	R	R	R	R
ETHYLENE OXIDE	L		NR	NR		NR	NR
FATTY ACIDS	R	R	R	R		R	R
FERRIC ACETATE			R	NR			
FERRIC CHLORIDE	R	R	R	R	R	R	R
FERRIC HYDROXIDE			R	R	R	R	R
FERRIC NITRATE	R	R	R	R	R	R	R
FERRIC SULFATE	R	R	R	R	R	R	R
FERROUS CHLORIDE	R	R	R	R	R	R	R
FERROUS HYDROXIDE			R		R	R	R
FERROUS NITRATE			R		R	R	R
FERROUS SULFATE	R	R	R	R	R	R	R
FISH SOLUBLES	R		R	R		R	R
FLUOROBORIC ACID	R	R	R	R			
FLUORINE GAS (WET)	NR	NR	R	NR	NR		
FLUORINE GAS	NR	NR	R	NR	NR	NR	NR
FLUOROSILICIC ACID, 25%	R	R	R	R		R	L
FORMALDEHYDE	R	L	R	R	R	NR	NR
FORMIC ACID	R	R	R	NR	NR	R	NR
FRUCTOSE	R	R	R	R	R	R	R
FRUIT JUICES AND PULP	R	R	R	R		R	R
FREON II	L	L	R	R	NR	L	L
FREON 12	L	L	R	R		L	L
FREON 21			NR	NR		L	L
FREON 22			NR	NR		L	L
FREON 113	L	L	R	R		L	L
FREON 114	L	L	R	R		L	L
FURFURAL	L	NR	NR	NR	NR	NR	NR
GALLIC ACID	R	R	R	R			
GAS (COKE OVEN)			NR	NR			

REAGENT	POLYETHYLENE		PVC-1		ABS	CPVC	
	73ºF	140º	73ºF	140º	73ºF	73ºF	180º
GASOLINE (REFINED)*	R	NR	R	R	NR	NR	NR
GLUCOSE	R	R	R	R	R	R	R
GLYCERINE	R	R	R	R	R	R	R
GLYCOL	R	R	R	R		R	R
GLYCOLIC ACID	R	R	R	R			
GRAPESUGAR			R	R			
GREEN LIQUOR			R	R	R	R	R
HEPTANE	L	NR	R	R	R	L	
HERCOLYN			R				
HEXANE	NR	NR	R	NR	L		
HEXANOL, TERTIARY			R	R			
HYDROBROMIC ACID, 20%	R	R	R	R	R		
HYDROCHLORIC ACID, 10%	R	R	R	R	L	R	R
HYDROCHLORIC ACID, 30%	R	R	R	R	L	R	L
HYDROCHLORIC ACID - CONC.	R	R	R	R			
HYDROCHLORIC ACID PICKLING			R	R			
HYDROCYANIC ACID	R	R	R	R	R		
HYDROFLUORIC ACID, 48%	R	R	R	NR	NR	NR	NR
HYDROFLUORIC ACID, 50%	R	R	R	NR	NR	NR	NR
HYDROFLUORIC ACID, 70%	R	R	NR	NR	NR	NR	NR
HYDROFLUORSILICIC ACID			R	R	NR	L	L
HYDROGEN AQUEONS	R	R	R	R		R	R
HYDROGEN PEROXIDE, 30%	R	R	R	R		R	
HYDROGEN PEROXIDE, 50%	R	L	R	R		R	R
HYDROGEN PEROXIDE, 90%	R	L	R	R		NR	NR
HYDROGEN PHOSPHIDE			R	R			
HYDROGEN SULFIDE	R	R	R	R			
HYDROQUINONE	R	R	R	R			
HYDROXYLAMINE SULFATE			R	R			
HYPOCHLORINE ACID			R	R		R	R
HYPOCHLORITE			R				
HYPOCHLOROUS ACID	R	R	R	R	R		
HYDRAZINE (ANHYDROUS) 97%			NR	NR			
IODINE			NR	NR	NR		
IODINE SOLUTION (10%)	L	L	NR	NR			
KEROSENE*	L	L	R	R	R	R	R
KETONES			NR	NR	NR	NR	NR
KRAFT LIQUOR			R	R	R	R	R
LACTIC ACID, 25%	R	R	R	R	R	R	R
LACTIC ACID, 80%	R	R	R		NR	R	L
LARD OIL	R	R	R	R		R	R
LAURIC ACID			R	R			
LAURYL CHLORIDE			R	R			
LEAD ACETATE	R	R	R	R		R	R
LEAD CHLORIDE	R	R	R	R		R	R
LEAD NITRATE	R	R	R	R		R	R
LEAD SULFATE	R	R	R	R		R	R
LINOLEIC ACID			R	R			
LINOLEIC OIL			R	R			
LINSEED OIL	R	R	R	R	NR	NR	NR
LIQUORS	R	R	R	R		R	R
LITHIUM BROMIDE	R		R	R			
LUBRICATING OIL, ASTM #1*	R		R	R			
LUBRICATING OIL, ASTM #2*	R		R	R			
LUBRICATING OIL, ASTM #3*	R		R	R			
LUX LIQUID			R	NR			
MACHINE OIL			R	R			
MAGNESIUM CARBONATE	R	R	R	R	R	R	R
MAGNESIUM CHLORIDE	R	R	R	R	R	R	R
MAGNESIUM CITRATE			R	R		R	R
MAGNESIUM HYDROXIDE	R	R	R	R	R	R	R
MAGNESIUM NITRATE	R	R	R	R	R	R	R
MAGNESIUM SULFATE	R	R	R	R	R	R	R

REAGENT	POLYETHYLENE		PVC-1		ABS	CPVC	
	73ºF	140º	73ºF	140º	73ºF	73ºF	180º
MANGANESE CHLORIDE			R	R			
MANGANESE SULFATE (SAT.)	L	L	R	R		R	R
MANGANESE SULFATE (10%)			R	R		R	R
MANGANESE SULFATE (20%)			R	R		R	R
MALEIC ACID			R	R	R	R	R
MALIC ACID			R	R			
MANUFACTURED GAS			NR	NR			
MERCURAL OINTMENT, BLUE (5%)			R				
MERCURIC CHLORIDE	R	R	R	R		R	R
MERCURIC CYANIDE	R	R	R	R		R	R
MERCUROUS NITRATE	R	R	R	R		R	R
MERCURY	R	R	R	R		R	R
MERCURY OINTMENT (AMMONIATED)			R				
METHYLENE CHLOROBROMIDE			NR	NR			
METHOXYETHYL OLEATE			R				
METHYL ALCOHOL	R	R	R	R	NR	R	
METHYL CELLOSOLVE	L	L	NR	NR		NR	NR
METHYL CHLORIDE	L	NR	NR	NR	NR	NR	NR
METHYL ETHYL KETONE	NR	NR	NR	NR	NR	NR	NR
METHYL ISO-BUTYL KETONE			NR	NR	NR	NR	NR
METHYL METHACRYLATE			R			NR	NR
METHYL SALICYLATE			R				
METHYL SULFATE			R	NR			
METHYL SULFURIC ACID			R	R			
METHYLAMINE			NR	NR		NR	NR
METHYLENE BROMIDE			NR	NR			
METHYLENE CHLORIDE	NR	NR	NR	NR		NR	NR
METHYLENE IODINE	L	L	NR	NR			
MILK	R	R	R	R	R	R	
MINERAL OILS	R	NR	R	R	R		
MIXED ACIDS			R	R			
MOLASSES	R	R	R	R		R	R
MURIATIC ACID			R	R		R	L
NAPHTHA	L	NR	R	R		R	
NAPHTHALENE	R	NR	NR	NR		NR	NR
NATURAL GAS	R	R	NR	NR	R		
NICKEL ACETATE	R	R	R			R	R
NICKEL CHLORIDE	R	R	R	R	R	R	R
NICKEL NITRATE	R	R	R	R	R	R	R
NICKEL SULFATE	R	R	R	R	R	R	R
NICOTINE			R	R		R	R
NICOTINE ACID			R	R			
NITRIC ACID 84% + SULFURIC ACID 16%			R				
NITRIC ACID, ANHYDROUS			NR	NR			
NITRIC ACID, 10%	R	L	R	R	NR	R	R
NITRIC ACID, 30%	R	L	R	R	NR	R	R
NITRIC ACID, 60%	R	L	R	NR	NR	R	
NITRIC ACID, 68%	R	L	R	NR	NR	R	NR
NITROBENZENE	NR	NR	NR	NR	NR	NR	NR
NITROGLYCERINE	L	NR	NR	NR			
NITROUS OXIDE			R	NR			
NITROGLYCOL			NR	NR			
OCENOL			R	R			
OILS AND FATS			R	R		L	L
OILS - ESTER						NR	NR
OIL-SOUR CRUDE*			R	R		R	R
OLEIC ACID			R	R	R		
OLEUM	NR	NR	NR	NR	NR	NR	NR
OXALIC ACID	R	R	R	R	R	R	L
OXYGEN			R	R	R	R	R
OZONE	L	L	R	R		R	R
PALMITIC ACID, 10%			R	R	R		
PALMITIC ACID, 70%			R	NR			

REAGENT	POLYETHYLENE		PVC-1		ABS	CPVC	
	73ºF	140º	73ºF	140º	73ºF	73ºF	180º
PARAFFIN	R	L	R	R	R	R	
PERACETIC ACID, 40%			R	NR		NR	NR
PERCHLORIC ACID, 10%	R	R	R	NR		R	
PERCHLORIC ACID, 15%	R	R	R	NR			
PERCHLORIC ACID, 70%	R	L	R	NR	R		
PERPHOSPHATE			R				
PETROLEUM LIQUIFIER			R	R			
PETROLEUM OILS (SOUR)*			R	NR			
PHENOL	R	R	NR	NR	NR	R	
PHENYLHYDRAZINE			NR	NR		NR	NR
PHENYLHYDRAZINE HYDROCHLORIDE			NR	NR		R	R
PHOSGENE, LIQUID	NR	NR	NR	NR			
PHOSGENE, GAS	NR	NR	NR			NR	
PHOSPHORIC ACID, 10%	R	R	R	R		R	R
PHOSPHORIC ACID, 25%	R	R	R	R		R	R
PHOSPHORIC ACID, 50%	R	R	R	R	R	R	R
PHOSPHORIC ACID, 75%	R	R	R	R		R	R
PHOSPHORIC ACID, 85%	R	R	R	R		R	NR
PHOSPHOROUS (YELLOW)			R	NR			
PHOSPHOROUS PENTOXIDE			R	NR		L	L
PHOSPHOROUS TRICHLORIDE			NR	NR		NR	NR
PHOTOGRAPHIC SOLUTIONS:	R	R					
DK #3			R	R			
DEKTAL DEVELOPER			R	R			
KODAK FIXER			R	R			
KODAK SHORT STOP			R	R			
PICRIC ACID	R	L	NR	NR	NR	NR	NR
PLATING SOLUTIONS:							
BRASS	R	R	R	R		R	R
CADMIUM	R	R	R	R		R	R
COPPER	R	R	R	R		R	R
GOLD	R	R	R	R		R	R
INDIUM	R	R	R	R			
LEAD	R	R	R	R		R	R
NICKEL	R	R	R	R		R	R
RHODIUM	R	R	R	R		R	R
SILVER	R	R	R	R		R	R
TIN	R	R	R	R		R	R
ZINC	R	R	R	R		R	R
POTASH (SAT. AQ.), T TYPE I			R	R		R	R
POTASSIUM ALUM	R	R	R	R		R	R
POTASSIUM AMYL XANTHATE			R	NR			
POTASSIUM BICARBONATE	R	R	R	R		R	R
POTASSIUM BISULFATE	R		R	R		R	R
POTASSIUM BORATE	R	R	R	R		R	R
POTASSIUM BROMATE	R	R	R	R		R	R
POTASSIUM BROMIDE	R	R	R	R		R	R
POTASSIUM CARBONATE	R	R	R	R	R	R	R
POTASSIUM CHROMATE	R	R	R	R		R	R
POTASSIUM CHLORATE	R	R	R	R	R	R	R
POTASSIUM CHLORIDE	R	R	R	R	R	R	R
POTASSIUM CYANIDE	R	R	R	R		R	R
POTASSIUM DICHROMATE	R	R	R	R		R	R
POTASSIUM ETHYL XANTHATE			R	NR			
POTASSIUM FERRICYANIDE	R	R	R	R		R	R
POTASSIUM FERROCYANIDE	R	R	R	R		R	R
POTASSIUM FLUORIDE	R	R	R	R		R	R
POTASSIUM HYDROXIDE	R	R	R	R	R	R	R
POTASSIUM NITRATE	R	R	R	R	R	R	R
POTASSIUM PERBORATE	R	R	R	R		R	R
POTASSIUM PERCHLORATE	R	R	R	R		R	R
POTASSIUM PERMANGANATE, 10%	R	R	R	R		R	R
POTASSIUM PERMANGANATE, 25%	R	R	R	NR		R	R

REAGENT	POLYETHYLENE		PVC-1		ABS	CPVC	
	73ºF	140º	73ºF	140º	73ºF	73ºF	180º
POTASSIUM PERSULFATE	R	R	R	R		R	R
POTASSIUM SULFATE	R	R	R	R	R	R	R
PROPANE	R	R	R	R			
PROPANE GAS	R	R	NR	NR			
PROPARGYL ALCOHOL	R	R	R	R			
PROPY ALCOHOL	R	R	R	R			
PROPYLENE DICHLORIDE	NR	NR	NR	NR		NR	NR
PROPYLENE OXIDE			NR	NR		NR	NR
PYRIDINE	R	L	NR	NR		NR	NR
PYROGALLIC ACID			R	NR			
RAYON COAGULATING BATH	R	R	R	R		R	
REFINERY CRUDES*			R	R			
ROCHELLE SALTS			R	R			
SALICYLIC ACID	R	R	R	R			
SANTICIZER			NR				
SEA WATER	R	R	R	R		R	R
SELENIC ACID			R	R			
SEWERAGE	R	R	R	R			
SILICIC ACID	R	R	R	R		R	R
SILVER CYANIDE	R	R	R	R		R	R
SILVER NITRATE	R	R	R	R	R	R	R
SILVER SULFATE			R	R	R	R	R
SOAPS			R	R	R	R	R
SODIUM ACETATE	R	R	R	R		R	R
SODIUM ALUM	R	R	R	R		R	R
SODIUM BENZOATE	R	R	R	R		R	R
SODIUM BICARBONATE	R	R	R	R	R	R	R
SODIUM BICHROMATE			R	R		R	R
SODIUM BISULFATE	R	R	R	R	R	R	R
SODIUM BISULFITE	R	R	R	R		R	R
SODIUM BROMIDE	R	R	R	R	R	R	R
SODIUM CARBONATE	R	R	R	R	R	R	R
SODIUM CHLORATE	R	R	R	NR		R	R
SODIUM CHLORIDE	R	R	R	R	R	R	R
SODIUM CHLORITE	R	R	NR	NR		R	R
SODIUM CYANIDE	R	R	R	R		R	R
SODIUM DICHROMATE	R	R	R	R		R	R
SODIUM FERRICYANIDE	R	R	R	R		R	R
SODIUM FERROCYANIDE	R	R	R	R		R	R
SODIUM FLUORIDE	R	R	R	R	R	R	R
SODIUM HYDROXIDE	R	R	R	R	R	R	R
SODIUM HYDROXIDE, 30%	R	R	R	R	R	R	R
SODIUM HYDROXIDE, 50%	R	R	R	R	R	R	R
SODIUM HYPOCHLORITE	R	R	R		R	R	R
SODIUM NITRATE	R	R	R	R	R	R	R
SODIUM NITRITE	R	R	R	R	R	R	R
SODIUM PEROXIDE, 8750			R	R			
SODIUM PERCHLORATE			R	R		R	R
SODIUM SULFATE	R	R	R	R	R	R	R
SODIUM SULFIDE	R	R	R	R	R	R	R
SODIUM SULFITE	R		R	R	R	R	R
SODIUM THIOSULFATE	R	R	R	R		R	R
SOUR CRUDE OIL (WEST TEXAS)*			R	R			
STANNIC CHLORIDE	R	R	R	R		R	R
STANNOUS CHLORIDE	R	R	R	R	R	R	R
STARCH	R	R	R	R		R	R
STEARIC ACID	R	R	R	R		R	
STODDARDS SOLVENT			NR	NR			
SUCCINIC ACID			R	R			
SULFITE LIQUOR			R	R			
SULFUR			R	R		R	
SULFUR DIOXIDE, (DRY)			R	R	NR		

REAGENT	POLYETHYLENE		PVC-1		ABS	CPVC	
	73ºF	140º	73ºF	140º	73ºF	73ºF	180º
SULFUR DIOXIDE, (WET)	R	R	R	NR	NR		
SULFUR TRIOXIDE			R	R			
SULFURIC ACID, 3%	R	R	R	R	R	R	R
SULFURIC ACID, 10%	R	R	R	R	R	R	R
SULFURIC ACID, 20%	R	R	R	R	R	R	R
SULFURIC ACID, 33%	R	R	R	R	R	R	R
SULFURIC ACID, 50%	R	R	R	R	R	R	R
SULFURIC ACID, 70%	R	L	R	R	L	R	R
SULFURIC ACID, 80%	R	NR	R	R	L	R	R
SULFURIC ACID, 85%	R	NR	R	R	L	R	NR
SULFURIC ACID, 90%	L	NR	R	NR	L	R	NR
SULFURIC ACID, 95%	L	NR	R	NR	NR	R	NR
SULFURIC ACID PICKLING			R	R			
SULFURIC/NITRIC (50/50)			NR	NR			
69% 68%							
SULFUROUS ACID	R	R	R	R			
TALL OIL	R	R	R	R		R	R
TANNIC ACID	R	R	R	R	NR	R	
TANNING LIQUORS			R	R	R	R	R
TARTARIC ACID	R	R	R	R	R	R	
TETRA SODIUM PYROPHOSPHATE			R	R		R	R
TETRAETHYL LEAD			R				
TETRAHYDRODURANE			NR	NR			
THIONYL CHLORIDE	NR	NR	NR	NR		NR	NR
THREAD CUTTING OIL			R				
TIRPINEOL			R				
TITANIUM TETRACHLORIDE	R		L	NR			
TOLUENE	NR	NR	NR	NR	NR	NR	NR
TRANSFORMER OIL	R	L	R	R			
TRIBUTYL PHOSPHATE	L	NR	NR	NR		NR	NR
TRIBUTYL CITRATE			R				
TRICHLOROACETIC ACID	R	R	R				
TRICHLOROETHYLENE	L	NR	NR	NR	NR	NR	NR
TRIETHANOLAMINE	R	NR	R	NR	L		
TRILONES			NR	NR			
TRIMETHYL PROPANE	L	L	R				
TRISODIUM PHOSPHATE	R	R	R	R	R	R	R
TURPENTINE	L	NR	R	R	NR	NR	NR
TRIMETHYLAMINE			R	NR			
UREA	R	R	R	R		R	R
URINE	R	R	R	R	R	R	R
VASELINE	R	R	NR	NR			
VEGETABLE OIL	R	R	R	R		NR	NR
VINEGAR	R	R	R	R	R	R	R
VINYL ACETATE	R		NR	NR		NR	NR
WATER ACID MINE			R	R	R		
WATER DEIONIZED	R	R	R	R	R	R	R
WATER DEMINERALIZED			R	R		R	R
WATER DISTILLED, WATER FRESH	R	R	R	R	R	R	R
WATER SALT	R	R	R	R	R	R	R
WHISKEY	R	R	R	R		R	R
WHITE LIQUOR			R	R	R	R	R
WINES	R	R	R	R	R	R	R
XYLENE OR XYLOL	NR	NR	NR	NR	NR	NR	NR
ZINC CHLORIDE	R	R	R	R	R	R	R
ZINC NITRATE			R	R	R	R	R
ZINC SULFATE	R	R	R	R	R	R	R

*RESISTANCE TO CERTAIN FLUID MIXTURES WITH POSSIBLE AROMATIC CONTENT CANNOT BE DETERMINED ON THE BASIS OF IMMERSION TESTING ALONE.

CRESLINE®

CRESLINE PLASTIC PIPE CO., INC.

SAFETY IN PRESSURE RATING

Bulletin No. T-5 May, 2002

All plastic pipe intended for use in pressure applications is rated in its pressure carrying capacity according to a standard procedure. This procedure consists of lengthy controlled pressure tests which are actually conducted on pipe test samples. The rating given to plastic pipe to be used in pressure applications is called "Pressure Rating," which is officially defined as "the estimated maximum pressure that water in the pipe can exert continuously with a high degree of certainty that failure of the pipe will not occur."

The Pressure Rating of any plastic pipe is dependent on three things: the strength of the material from which the pipe is made, the thickness of the pipe, the temperature of the pipe in application.

Since the user is interested in the long term pressure carrying ability of the pipe, tests which determine the Pressure Rating take a reasonably long time to conduct. No effective "quick" tests have yet been devised for adequately predicting the long term characteristics of plastic pipe.

While the tests themselves are conducted on pipe, the results of the tests are actually used to rate the plastic material from which the pipe is made. The material is thus given a strength rating known as Hydrostatic Design Stress, which can be related to other pipe produced from the material. This raw material rating is then used to determine the Pressure Rating of any pipe made from the material by the use of accepted mathematical formulas. Obviously, the thicker the pipe made from a given material, the higher the Pressure Rating. Different raw materials do, however, have different strength ratings and thus all plastic pipe of the same wall thickness will not have the same Pressure Rating.

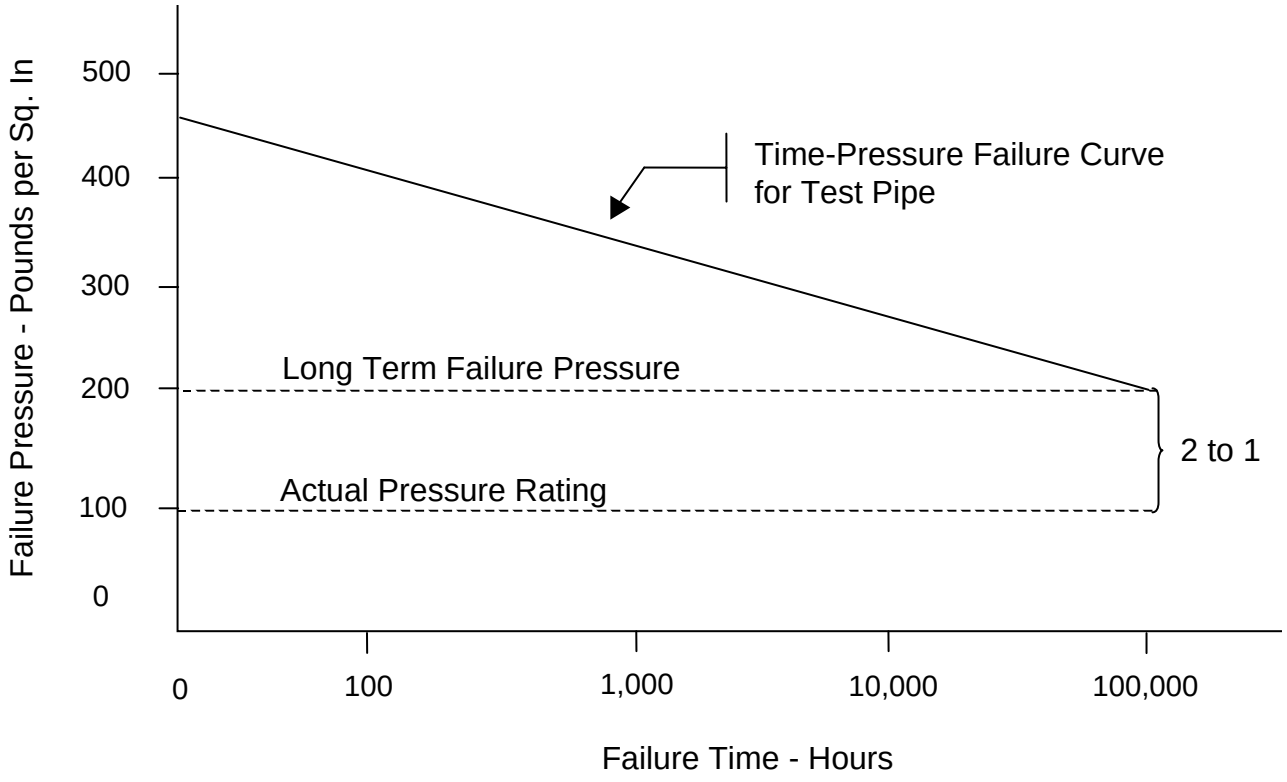
Basically the user should accept the Pressure Rating assigned to a plastic pipe as that pressure above which the pipe should not be operated. It is to be understood that the Pressure Rating of a pipe allows for certain built-in factors of safety to take into account conditions such as variations in raw material batches, production quality, shipping and handling, installation procedures, etc. Actually, the Pressure Rating assigned to plastic pipe is one half that pressure which has been determined would cause failure if maintained in the pipe continuously for 100,000 hours (11 1/2 years) under non-fluctuating conditions.

From the above we see that the built-in long term factor of safety for pressure rated plastic pipe will be somewhere near two to one if the pipe is operated at or near the assigned Pressure Rating and at or near the temperature which that rating has been made. Fluctuating conditions of pressure, such as surge, the installation of semi-damaged pipe, and variability of temperature all will contribute to the actual factor of safety allowed in the installation.

(OVER)

The requirement that all Standard plastic pipe intended for pressure applications be assigned a Pressure Rating which must be shown on the pipe is a valuable assist to the user. It allows him to buy a pipe which he knows is rated to handle the pressure of his application. It gives him confidence in the product.

Even with this plus value, however, the user could still have some doubt in his mind if his application is at other than standard temperature. The Pressure Rating assigned to, and printed on the pipe, is given at the standard temperature of 73°F. Many pipe manufacturers simply let it go at this. Another plus value for all Cresline Pressure Rated plastic pipe is that a Conversion Chart is shown on the reverse side of every specification sheet which is to be used to convert the standard Pressure Rating to the Pressure Rating at other temperatures. Cresline Plastics' broad research and testing program makes this valuable added feature possible. It adds up to double confidence in Cresline plastic pipe.



The figure above illustrates the basic method used in assigning Pressure Rating. Note that the assigned Pressure Rating is one half of the long term test failure pressure.

CRESLINE PLASTIC PIPE CO., INC.

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2100 South 35th St.	**Council Bluffs, IA 51501**	**712-322-2294**	**Fax 712-322-6673**
3801 East Hwy. 31	**Corsicana, TX 75109**	**903-872-8475**	**Fax 903-872-7732**

CRESLINE®

CRESLINE PLASTIC PIPE CO., INC.

PRESSURE CHARTS
FOR CRESLINE PIPES

Bulletin No. T-6

SDR - 26

Pressure Drop Of Water Per 100 Ft. Of Pipe **May, 2016**

SIZE	1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"		6"		8"		SIZE
GALLONS PER MINUTE	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	GALLONS PER MINUTE
1	.79	.21	.47	.06	.29	.02																	1
2	1.57	.76	.94	.22	.57	.06																	2
3	2.36	1.61	1.42	.46	.86	.14	.52	.04															3
4	3.15	2.74	1.89	.79	1.14	.23	.69	.07	.54	.04													4
5	3.94	4.14	2.36	1.19	1.43	.35	.87	.10	.67	.05													5
6	4.73	5.80	2.83	1.67	1.72	.49	1.04	.14	.80	.08													6
8	6.30	9.87	3.78	2.84	2.29	.84	1.39	.24	1.06	.13	.68	.04											8
10	7.88	14.91	4.72	4.29	2.86	1.27	1.74	.37	1.33	.20	.85	.07	.58	.03									10
15			7.08	9.08	4.29	2.68	2.61	.78	2.00	.41	1.27	.14	.87	.05									15
20			9.44	15.46	5.72	4.57	3.49	1.33	2.66	.70	1.70	.24	1.16	.09	.78	.04							20
25					7.15	6.90	4.35	2.01	3.33	1.06	2.12	.36	1.45	.14	.97	.05							25
30					8.58	9.67	5.22	2.81	4.00	1.49	2.55	.50	1.74	.20	1.17	.08							30
35							6.10	3.74	4.66	1.98	2.98	.67	2.03	.27	1.35	.10							35
40							6.95	4.79	5.33	2.54	3.40	.86	2.32	.34	1.56	.13	.94	.04					40
45									6.00	3.16	3.84	1.06	2.61	.42	1.75	.16	1.06	.05					45
50									6.66	3.84	4.25	1.29	2.90	.51	1.95	.19	1.18	.06					50
60									8.00	5.38	5.10	1.81	3.48	.72	2.33	.27	1.41	.08					60
70									9.32	7.15	5.95	2.41	4.06	.96	2.72	.36	1.65	.11					70
80											6.80	3.08	4.64	1.23	3.11	.46	1.88	.14					80
90											7.65	3.84	5.22	1.53	3.50	.58	2.12	.17					90
100											8.50	4.66	5.80	1.85	3.89	.70	2.35	.20	1.09	.03			100
125											10.60	7.04	7.25	2.80	4.86	1.06	2.94	.31	1.36	.05			125
150													8.00	3.93	5.81	1.48	3.53	.43	1.64	.07			150
175													10.15	5.22	6.81	1.97	4.11	.58	1.91	.09			175
200															7.78	2.60	4.70	.76	2.18	.12			200
225															8.75	3.17	5.29	.92	2.45	.14			225
250															9.73	3.81	5.88	1.12	2.73	.17			250
275															10.70	4.55	6.46	1.33	3.00	.20			275
300																	7.05	1.56	3.27	.24	1.96	.07	300
325																	7.64	1.81	3.54	.28	2.12	.08	325
350																	8.23	2.08	3.82	.32	2.29	.09	350
375																	8.81	2.36	4.09	.36	2.46	.11	375
400																	9.40	2.66	4.36	.41	2.62	.12	400
425																	9.99	2.98	4.63	.46	2.77	.13	425
450																	10.58	3.31	4.91	.51	2.95	.15	450
475																			5.18	.56	3.09	.16	475
500																			5.45	.62	3.27	.18	500
550																			6.00	.73	3.60	.21	550
600																			6.54	.86	3.93	.25	600
650																					4.26	.29	650
700																					4.58	.33	700
750																					4.91	.38	750
800																					5.24	.43	800
900																					5.89	.53	900
1000																					6.55	.65	1000
1250																							1250
1500																							1500
1750																							1750
2000																							2000
2500																							2500
3000																							3000
3500																							3500

SIZE	10"		12"		16"	
GALLONS PER MINUTE	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.
250	1.05	.02				
275						
300	1.26	.02				
325						
350	1.47	.03				
375						
400	1.68	.04				
425						
450	1.89	.05				
475						
500	2.10	.06	1.49	.03		
550	2.31	.07	1.64	.03		
600	2.52	.09	1.79	.04		
650	2.72	.10	1.94	.04		
700	2.93	.11	2.09	.05		
750	3.14	.13	2.23	.06		
800	3.35	.15	2.38	.06		
900	3.77	.18	2.68	.08		
1000	4.19	.22	2.98	.10		
1250	5.24	.34	3.72	.15		
1500	6.29	.47	4.47	.21	2.84	.07
1750	7.34	.63	5.21	.27		
2000	8.38	.80	5.96	.35	3.78	.12
2500					4.73	.17
3000					5.67	.25
3500					6.62	.33

Note: All pressure drops calculated using the Williams and Hazen formula with: C=150

Recommended operating conditions shown above heavy line in charts.

SDR - 21

Pressure Drop Of Water Per 100 Ft. Of Pipe **May, 2016**

SIZE	1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"		6"		8"		SIZE
GALLONS PER MINUTE	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	GALLONS PER MINUTE
1	.79	.21	.47	.06	.29	.02																	1
2	1.57	.76	.94	.22	.57	.06																	2
3	2.36	1.61	1.42	.46	.86	.14	.54	.04															3
4	3.15	2.74	1.89	.79	1.14	.23	.73	.08	.55	.04													4
5	3.94	4.14	2.36	1.19	1.43	.35	.91	.12	.69	.06													5
6	4.73	5.80	2.83	1.67	1.72	.49	1.09	.16	.83	.08													6
8	6.30	9.87	3.78	2.84	2.29	.84	1.45	.28	1.10	.14	.71	.05											8
10	7.88	14.91	4.72	4.29	2.86	1.27	1.81	.42	1.38	.21	.89	.07	.60	.03									10
15			7.08	9.08	4.29	2.68	2.72	.89	2.07	.45	1.33	.15	.90	.06									15
20			9.44	15.46	5.72	4.57	3.63	1.51	2.76	.77	1.77	.26	1.20	.10	.84	.04							20
25					7.15	6.90	4.54	2.28	3.45	1.16	2.21	.39	1.50	.15	1.05	.06							25
30					8.58	9.67	5.45	3.20	4.15	1.62	2.65	.54	1.81	.22	1.26	.09							30
35							6.35	4.25	4.83	2.16	3.10	.72	2.10	.29	1.49	.11							35
40							7.26	5.45	5.52	2.76	3.54	.92	2.41	.37	1.68	.15	.98	.04					40
45							8.17	6.77	6.20	3.43	3.98	1.14	2.71	.45	1.90	.18	1.10	.05					45
50							9.08	8.23	6.90	4.17	4.42	1.39	3.01	.56	2.11	.22	1.23	.06					50
60							10.89	11.53	8.29	5.84	5.30	1.95	3.61	.80	2.39	.31	1.48	.09					60
70											6.19	2.59	4.21	1.04	2.96	.41	1.72	.12					70
80											6.77	3.32	4.82	1.32	3.38	.53	1.97	.15					80
90											7.10	4.12	5.42	1.64	3.80	.66	2.22	.19					90
100											7.95	5.01	6.02	2.00	4.21	.81	2.46	.23	1.14	.04			100
125													7.50	3.00	5.27	1.21	3.08	.35	1.43	.05			125
150													9.03	4.24	6.33	1.70	3.69	.49	1.71	.07			150
175													10.05	5.64	7.37	2.23	4.30	.65	1.99	.09			175
200															8.42	2.90	4.92	.83	2.28	.13			200
225															9.48	3.58	5.54	1.03	2.57	.15			225
250															10.60	4.36	6.15	1.25	2.85	.19			250
275															11.60	5.21	6.78	1.50	3.27	.22			275
300																	7.38	1.76	3.42	.28	2.04	.08	300
325																	8.00	2.04	3.71	.31	2.21	.09	325
350																	8.60	2.34	3.99	.36	2.38	.10	350
375																	9.22	2.66	4.28	.41	2.54	.12	375
400																	9.86	2.98	4.56	.46	2.72	.13	400
425																	10.45	3.35	4.86	.51	2.89	.15	425
450																	11.10	3.73	5.14	.57	3.06	.16	450
475																			5.42	.63	3.23	.18	475
500																			5.71	.69	3.40	.20	500
550																			6.28	.82	3.74	.24	550
600																					4.08	.28	600
650																					4.42	.32	650
700																					4.76	.37	700
750																					5.10	.42	750
800																					5.44	.48	800
900																					6.12	.59	900
1000																					6.79	.72	1000
1250																							1250
1500																							1500
1750																							1750
2000																							2000

GALLONS PER MINUTE	10"		12"	
	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.
300	1.31	.03		
325				
350	1.53	.04	1.09	.02
375				
400	1.75	.05	1.24	.02
425				
450	1.97	.06	1.40	.02
475				
500	2.19	.07	1.55	.03
550	2.41	.08	1.71	.04
600	2.62	.10	1.87	.04
650	2.84	.11	2.02	.05
700	3.06	.13	2.18	.06
750	3.28	.14	2.33	.06
800	3.50	.16	2.49	.07
900	3.94	.20	2.80	.09
1000	4.37	.25	3.11	.11
1250	5.46	.37	3.89	.16
1500	6.56	.52	4.66	.23
1750	7.65	.69	5.44	.30
2000	8.75	.89	6.22	.39

CRESLINE PLASTIC PIPE CO., INC.

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2100 South 35th St. Council Bluffs, IA 51501 712-322-2294 Fax 712-322-6673
3801 East Hwy. 31 Corsicana, TX 75109 903-872-8475 Fax 903-872-7732

SIZE	1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"		6"		8"		SIZE
GALLONS PER MINUTE	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	GALLONS PER MINUTE
1	1.05	.43	.60	.11	.37	.03																	1
2	2.11	1.55	1.20	.39	.74	.12	.43	.03															2
3	3.17	3.27	1.80	.83	1.11	.26	.64	.07	.47	.03													3
4	4.22	5.57	2.41	1.42	1.48	.44	.86	.11	.63	.05													4
5	5.28	8.42	3.01	2.15	1.86	.66	1.07	.17	.79	.08													5
6	6.33	11.81	3.61	3.01	2.23	.93	1.29	.24	.95	.11	.57	.03											6
8	8.44	20.10	4.81	5.12	2.97	1.58	1.72	.42	1.26	.20	.76	.06	.54	.02									8
10	10.55	30.37	6.02	7.73	3.71	2.39	2.15	.63	1.58	.30	.96	.09	.67	.04									10
15			9.02	16.37	5.57	5.06	3.22	1.33	2.36	.63	1.43	.19	1.01	.08	.65	.03							15
20					7.42	8.61	4.29	2.27	3.15	1.07	1.91	.32	1.34	.13	.87	.05							20
25					9.28	13.01	5.36	3.42	3.94	1.63	2.39	.48	1.67	.20	1.08	.07							25
30					11.14	18.22	6.43	4.80	4.73	2.27	2.87	.67	2.01	.28	1.30	.10							30
35							7.51	6.38	5.52	3.01	3.35	.89	2.35	.38	1.52	.13	.88	.03					35
40							8.58	8.17	6.30	3.86	3.82	1.14	2.64	.48	1.73	.17	1.01	.04					40
45							9.65	10.16	7.09	4.80	4.30	1.42	3.01	.60	1.95	.21	1.13	.05					45
50							10.72	12.35	7.88	5.83	4.78	1.73	3.35	.73	2.17	.25	1.26	.07					50
60									9.46	8.17	5.74	2.42	4.02	1.02	2.60	.35	1.51	.09					60
70									11.03	10.87	6.69	3.22	4.69	1.36	3.04	.47	1.76	.12					70
80											7.65	4.13	5.36	1.74	3.47	.60	2.02	.16					80
90											8.60	5.13	6.03	2.16	3.91	.75	2.27	.20					90
100											9.56	6.23	6.70	2.63	4.34	.91	2.52	.24	1.11	.03			100
125											11.95	9.42	8.38	3.97	5.42	1.38	3.15	.37	1.39	.05			125
150													10.05	5.56	6.51	1.93	3.78	.51	1.67	.07			150
175															7.59	2.57	4.41	.68	1.94	.09			175
200															8.68	3.40	5.04	.90	2.22	.12			200
225															9.76	4.09	5.67	1.09	2.50	.15			225
250															10.85	4.97	6.30	1.32	2.78	.18			250
275																	6.93	1.58	3.05	.21			275
300																	7.56	1.85	3.33	.25	1.96	.07	300
325																	8.19	2.15	3.61	.29	2.12	.08	325
350																	8.82	2.47	3.89	.34	2.29	.09	350
375																	9.45	2.80	4.17	.38	2.46	.11	375
400																	10.08	3.16	4.44	.43	2.62	.12	400
425																			4.72	.48	2.77	.13	425
450																			5.00	.53	2.95	.15	450
475																			5.28	.59	3.09	.16	475
500																			5.55	.65	3.27	.18	500
550																			6.11	.78	3.60	.21	550
600																			6.67	.91	3.93	.25	600
650																			7.22	1.06	4.26	.29	650
700																			7.78	1.21	4.58	.33	700
750																			8.33	1.38	4.91	.38	750
800																			8.89	1.58	5.24	.43	800
900																					5.89	.53	900
1000																					6.55	.65	1000
1100																							1100
1200																							1200
1300																							1300
1400																							1400
1500																							1500
1750																							1750
2000																							2000
2250																							2250
2500																							2500
3000																							3000
3500																							3500

GALLONS PER MINUTE	10"		12"		16"	
	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.
450	1.85	.05				
475						
500	2.05	.06				
550	2.26	.07				
600	2.46	.08				
650	2.67	.10				
700	2.87	.11				
750	3.08	.12	2.17	.05		
800	3.29	.14	2.31	.06		
900	3.70	.17	2.60	.07		
1000	4.11	.21	2.89	.09		
1100	4.52	.25	3.18	.11		
1200	4.93	.30	3.47	.13		
1300	5.34	.34	3.76	.15		
1400	5.75	.39	4.05	.17		
1500	6.16	.45	4.34	.19	2.74	.06
1750	7.19	.60	5.35	.25		
2000	8.21	.76	5.78	.32	3.65	.11
2250			6.51	.40		
2500			7.23	.49	4.57	.16
3000					5.48	.23
3500					6.40	.30

Note: This chart is also valid for:

CRESLINE HD Form No. 161-HD

SCH 80 IPS

Pressure Drop Of Water Per 100 Ft. Of Pipe **May, 2016**

SIZE	1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"		6"		8"		SIZE
GALLONS PER MINUTE	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	GALLONS PER MINUTE
1	1.37	.81	.74	.18	.45	.05																	1
2	2.74	2.92	1.48	.65	.89	.19	.50	.05															2
3	4.11	6.18	2.23	1.39	1.34	.40	.75	.10	.54	.04													3
4	5.48	10.52	2.97	2.36	1.78	.69	1.00	.17	.73	.08													4
5	6.85	15.89	3.71	3.57	2.23	1.04	1.25	.25	.91	.12													5
6	8.22	22.27	4.45	5.01	2.68	1.45	1.50	.35	1.09	.16	.65	.05											6
8	10.96	37.92	5.93	8.52	3.57	2.47	2.00	.60	1.45	.28	.87	.08	.61	.03									8
10			7.42	12.88	4.46	3.73	2.50	.91	1.81	.42	1.09	.12	.75	.05									10
15			11.13	27.27	6.69	7.91	3.75	1.93	2.72	.89	1.63	.25	1.13	.10	.73	.04							15
20					8.92	13.46	5.00	3.29	3.63	1.51	2.17	.43	1.51	.18	.97	.06							20
25					11.15	20.34	6.25	4.97	4.54	2.28	2.72	.65	1.89	.27	1.21	.09							25
30							7.50	6.97	5.45	3.20	3.26	.92	2.27	.38	1.46	.13							30
35							8.75	9.27	6.35	4.25	3.80	1.22	2.65	.51	1.70	.17	.98	.04					35
40							10.00	11.87	7.26	5.45	4.35	1.56	3.03	.65	1.94	.22	1.12	.06					40
45									8.17	6.77	4.89	1.94	3.41	.81	2.19	.27	1.25	.07					45
50									9.08	8.23	5.43	2.36	3.78	.98	2.43	.33	1.39	.09					50
60									10.89	11.53	6.52	3.31	4.54	1.37	2.91	.47	1.67	.12					60
70											7.61	4.40	5.30	1.83	3.40	.62	1.95	.16					70
80											8.69	5.63	6.06	2.34	3.89	.79	2.23	.21					80
90											9.78	7.00	6.81	2.91	4.37	.99	2.51	.26					90
100											10.87	8.51	7.57	3.53	4.86	1.20	2.79	.31	1.23	.04			100
125													9.46	5.34	6.07	1.81	3.49	.47	1.54	.06			125
150													11.35	7.43	7.29	2.54	4.19	.66	1.85	.09			150
175															8.50	3.38	4.88	.88	2.15	.12			175
200															9.71	4.47	5.58	1.16	2.46	.16			200
225															10.93	5.38	6.28	1.40	2.77	.19			225
250																	6.98	1.70	3.08	.23			250
275																	7.67	2.03	3.38	.28			275
300																	8.37	2.38	3.69	.32	2.14	.09	300
325																	9.07	2.76	4.00	.38	2.32	.10	325
350																	9.77	3.16	4.31	.43	2.50	.12	350
375																	10.46	3.59	4.61	.49	2.68	.13	375
400																			4.92	.55	2.86	.15	400
425																			5.23	.62	3.04	.17	425
450																			5.54	.69	3.21	.18	450
475																			5.85	.76	3.39	.20	475
500																			6.15	.83	3.57	.22	500
550																			6.77	1.00	3.93	.27	550
600																			7.38	1.17	4.28	.31	600
650																			8.00	1.36	4.64	.37	650
700																			8.61	1.56	5.00	.42	700
750																			9.23	1.77	5.36	.48	750
800																			9.85	2.03	5.71	.54	800
900																					6.43	.67	900
1000																					7.14	.81	1000
1250																							1250
1500																							1500
1750																							1750
2000																							2000

SIZE	10"		12"	
GALLONS PER MINUTE	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.
350	1.59	.04		
375				
400	1.81	.05		
425				
450	2.04	.06		
475				
500	2.27	.07	1.60	.03
550	2.49	.09	1.76	.04
600	2.72	.12	1.92	.04
650	2.95	.12	2.08	.05
700	3.17	.14	2.24	.06
750	3.40	.16	2.40	.07
800	3.63	.18	2.56	.08
900	4.08	.22	2.88	.10
1000	4.54	.27	3.20	.12
1250	5.67	.41	4.01	.17
1500	6.80	.57	4.81	.24
1750	7.94	.76	5.61	.32
2000	9.07	.97	6.41	.42

CRESLINE PLASTIC PIPE CO., INC.

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CRESLINE®
CRESLINE PLASTIC PIPE CO., INC.

PERCENT OF TRUCKLOAD GUIDE FOR RIGID PIPE

MAY, 2021

PVC PRESSURE PIPE SDR-26, SDR-21, SDR-17 & SCH-40			
SIZE	LGTH.	FT/PALLET	%/TL
1/2"	10'	5200	1.7
1/2"	20'	8400	2.3
3/4"	10'	4400	2.1
3/4"	20'	6600	2.5
1"	10'	3600	1.7
1"	20'	5400	3.1
1-1/4"	10'	2000	2.1
1-1/4"	20'	4000	3.1
1-1/2"	10'	2250	2.5
1-1/2"	20'	3600	3.6
2"	10'	1750	3.2
2"	20'	2800	4.2
2 1/2"	20'	2240	5.0
3"	20'	1500	5.0
4"	20'	580	3.6
4-1/2"	20'	540	4.2
5"	20'	460	4.2
6"	20'	400	5.0
6-1/4"	20'	360	5.0
8"	20'	280	6.3
10"	20'	160	6.3
12"	20'	120	8.3
16"	20'	120	8.3

DRAIN,WASTE & VENT PIPE PVC(SOLID & CELLULAR CORE)			
SIZE	LGTH.	FT/PALLET	%/TL
1-1/4"	10'	2000	2.1
1-1/4"	20'	4000	3.1
1-1/2"	10'	2590	2.5
1-1/2"	20'	5180	5.0
2"	10'	1670	2.5
2"	20'	3340	5.0
3"	10'	750	2.5
3"	20'	1500	5.0
4"	10'	480	2.5
4"	20'	960	5.0
6"	10'	200	2.5
6"	20'	400	5.0
8"	20'	280	6.3
10"	20'	160	6.3
12"	20'	120	8.3
16"	20'	120	8.3

PVC DRAIN & SEWER PIPE			
SIZE	LGTH.	FT/PALLET	%/TL
3"	10'	1000	3.1
4"	10'	900	4.2
6"	10'	350	4.2

PVC THREADED DROP PIPE SCH-80 & SCH-120			
SIZE	LGTH.	FT/PALLET	%/TL
1"	20'	2600	2.3
1-1/4"	20'	2000	2.3
1-1/2"	20'	2360	2.5
2"	20'	1860	3.2

PVC PRESSURE PIPE SCHEDULE 80			
SIZE	LGTH.	FT/PALLET	%/TL
1/2"	20'	5200	1.7
3/4"	20'	4400	2.1
1"	20'	5200	3.1
1-1/4"	20'	4000	3.1
1-1/2"	20'	2360	2.5
2"	20'	1860	3.1
2-1/2"	20'	1160	2.8
3"	20'	1500	5.0
4"	20'	580	3.6
6"	20'	400	5.0
8"	20'	280	6.3
10"	20'	160	6.3
12"	20'	120	8.3

PVC PRESSURE PIPE SDR-26 & SDR-21 GASKET JOINT			
SIZE	LGTH.	FT/PALLET	%/TL
2"	20'	2960	5.0
2-1/2"	20'	1800	5.0
3"	20'	1160	5.0
4"	20'	760	5.0
6"	20'	360	5.0
8"	20'	280	6.3
10"	20'	160	6.3
12"	20'	120	8.3

PVC SEWER PIPE SDR-35 & SDR-26 GASKET JOINT			
SIZE	LGTH.	FT/PALLET	%/TL
4"	14'	1260	5.6
4"	20'	1200	6.3
6"	14'	490	5.6
6"	20'	700	8.3
8"	14'	280	5.6
8"	20'	400	8.3
10"	14'	168	5.6
12"	14'	112	4.8

PVC SEWER PIPE SDR-35 & SDR-26 SOLVENT WELD			
SIZE	LGTH.	FT/PALLET	%/TL
4"	10'	900	4.2
4"	20'	1200	6.3
6"	10'	350	4.2
6"	20'	700	8.3
8"	10'	200	4.2

CPVC PIPE			
SIZE	LGTH.	FT/PALLET	%/TL
1/2"	10'	9000	1.8
3/4"	10'	4500	1.4
1"	10'	2880	1.4
1-1/4"	10'	1620	1.5
1-1/2"	10'	1080	1.4
2"	10'	720	1.5

Add up %/TL for each pallet ordered to determine order size in comparison to full truck load (100%/TL). Percent of full truck load is approximate and subject to change based on mix of product per load.