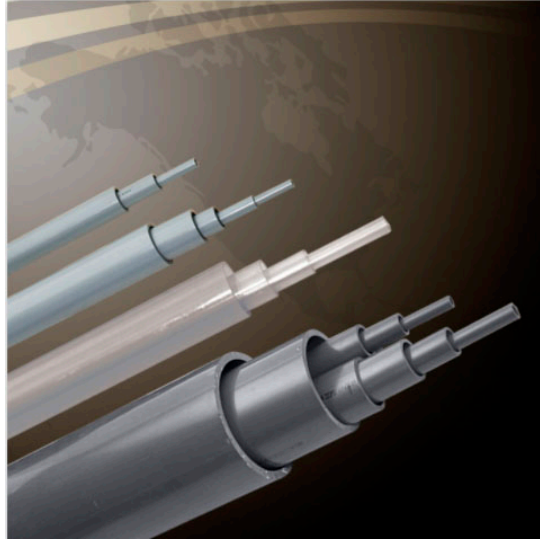




LD PIPE



Features

- Excellent flow characteristics.
- Smooth interior walls result in lower pressure loss and higher volume than conventional metal fittings.
- Wide range and sizes supplied.
- CPVC heat resistant rigid polyvinyl chloride.
- Max. service temperature:
 - Continuo -17°F ~ 194°F (0°C ~ 90°C).
 - Corto periodo 212°F (100°C).
- Non-corrosive and resistant to most chemicals.

Please contact us for Flow Rate, CV Value, Working Pressure/Temperature, Pressure Loss and other technical information.

Specification

the pipe is manufactured to the following standard specifications

TYPE	MATERIAL	DIMENSIONS	COMMERCIAL CLASSIFICATION
PVC SCH.80	ASTM D-1784(12454)	ASTM D-1785	TYPE I, GRADE 1, PVC1120
CPVC SCH.80	ASTM D-1784(23447)	ASTM F-441	TYPE IV, GRADE 1, CPVC4120

schedule 80 PVC and CPVC pipe dimensions, weights and maximum operation pressure

NOMINAL PIPE SIZE	OUTSIDE DIAMETER		WALL THICKNESS		APPROX. INSIDE DIAMETER	NOMINAL WEIGHT		MAX. OPERATING PRESSURE
						PVC	CPVC	
	INCH		INCH		INCH	LB/FT	LB/FT	PSI
1/2"	0.840	±0.004	0.147	±0.020	0.53	0.21	0.23	850
3/4"	1.050	±0.004	0.154	±0.020	0.72	0.28	0.31	690
1"	1.315	±0.005	0.179	±0.021	0.94	0.41	0.45	630
1-1/4"	1.660	±0.005	0.191	±0.023	1.26	0.57	0.62	520
1-1/2"	1.900	±0.006	0.200	±0.024	1.48	0.69	0.76	470
2"	2.375	±0.006	0.218	±0.026	1.91	0.96	1.05	400
2-1/2"	2.875	±0.007	0.276	±0.033	2.29	1.46	1.60	420
3"	3.500	±0.008	0.300	±0.036	2.86	1.96	2.14	370
4"	4.500	±0.009	0.337	±0.040	3.79	2.86	3.12	320
5"	5.563	±0.010	0.375	±0.045	4.77	3.97	4.34	290
6"	6.625	±0.011	0.432	±0.052	5.71	5.46	5.96	280
8"	8.625	±0.015	0.500	±0.060	7.57	8.30	9.06	250
10"	10.75	±0.015	0.593	±0.071	9.49	12.30	13.43	230
12"	12.75	±0.015	0.687	±0.082	11.29	16.93	18.48	230
14"	14.00	±0.015	0.750	±0.090	12.41	20.30	22.16	220
16"	16.00	±0.019	0.843	±0.101	14.21	26.10	28.49	220
18"	18.00	±0.019	0.937	±0.112	16.01	32.66	35.65	220
20"	20.00	±0.023	1.031	±0.124	17.81	39.97	43.63	220
24"	24.00	±0.031	1.218	±0.146	21.42	56.70	61.89	210

NOTE: Maximum Operating Pressure is applied to 73°C

properties of PVC & CPVC pipe
inch-lb unit

ITEM	INCH-LB UNIT			TEST METHOD
	PVC	CPVC	UNIT	
GENERAL				
Cell Classification	12454	23447	-	ASTM D1784
Maximum Usable Temp.	140	200	°F	-
Specific Gravity @ 73°F(23°C)	1.42±0.02	1.55±0.02	G/CC	ASTM D792
Water Absorption % Increase 24 Hrs @ 73°F(23°C)	0.04	0.04	%	ASTM D570
Hardness, Rockwell	110 - 120	115 - 125	-	ASTM D785
Poisson's Ratio @ 73°F(23°C)	0.38	0.36	-	ASTM D638
MECHANICAL				
Tensile Strength @ 73°F(23°C)	7,100	7,700	PSI	ASTM D638
Tensile Strength @ 194°F(90°C)	-	3,200	PSI	ASTM D638
Tensile Modulus Of Elasticity @ 73°F(23°C)	410,000	380,000	PSI	ASTM D638
Tensile Modulus Of Elasticity @ 194°F(90°C)	-	220,000	PSI	ASTM D638
Flexural Strength @ 73°F(23°C)	14,000	13,000	PSI	ASTM D790
Flexural Modulus Of Elasticity @ 73°F(23°C)	400,000	390,000	PSI	ASTM D790
Compressive Strength @ 73°F(23°C) $\epsilon=10\%$	10,000	14,000	PSI	ASTM D695
Compressive Modulus Of Elasticity @ 73°F	110,000	145,000	PSI	ASTM D695
Izod Impact, Notched @ 73°F(23°C)	1.5	3.0	FT-LB/IN	ASTM D256
THERMAL				
Coefficient Of Linear Expansion	2.5-3.5X10 ⁻⁵	3.0-4.0X10 ⁻⁵	IN/IN/°F	ASTM D696
Coefficient Of Thermal Conductivity	1.20	0.90	BUT/IN/HR/ FT.2/°F	ASTM C177
Heat Deflection Temperature Under Load (264psi, Annealed)	165	230	°F	ASTM D648
Specific Heat	0.27	0.26	CAL./°C/G	ASTM D2766
ELECTRICAL				
Volume Resistivity	>1.0X10 ¹⁵	>1.0X10 ¹⁵	OHM/CM	ASTM D257

Dielectric Strength	>1000	>1000	VOLT/MM	ASTM D149
Dielectric Constant	3	3	-	ASTM D150
Power Factor	0.01-0.02	0.01-0.02	-	ASTM D150
Electrical Conductivity	NON CONDUCTOR	NON CONDUCTOR	-	-
FIRE PERFORMANCE				
Flammability Rating	_ 0	V-0,5VB,5VA	-	UL-94
Flame Spread Index	<10	<10	-	UL-94
Average Time Of Burning	<5	<5	SEC	ASTM D635
Average Extent Of Burning	<10	<10	MM	ASTM D635
Burning Rate	SELF EXTINGUISHING	SELF EXTINGUISHING	MM/MIN	ASTM D635
Limiting Oxygen Index (LOI)	45	60	LOI	ASTM D2863