

Properties	Units	Test Method	Polyethylene	ABS	PVC-1	CPVC
			PE 4710			
<b><u>PHYSICAL</u></b>						
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
<b><u>THERMAL</u></b>						
Thermal Conductivity	BTU/hr./ft <sup>2</sup> °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 <sup>-5</sup>	6.0x10 <sup>-5</sup>	3.0x10 <sup>-5</sup>	3.4x10 <sup>-5</sup>
<b><u>ELECTRICAL</u></b>						
Dielectric Strength	Volts/Mil	D149	600-700		450	
Dielectric Constant 60 Hz		D150	2.30-2.32x10 <sup>5</sup>	3.54		
Power Factor 60 CPS 1000 CPS 10 <sup>6</sup> CPS		D150		0.005 0.006		
Volume Resistivity	Ohms/cm.		10 <sup>16</sup>	3.5x10 <sup>16</sup>		
<b><u>MISCELLANEOUS</u></b>						
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.