

Properties	Units	Test Method	Polyethylene		ABS	PVC-1	CPVC
			PE 2406	PE 3408			
<u>PHYSICAL</u>							
Specific Gravity		D-1505	0.949	0.955	1.03	1.41	1.52
Tensile Strength — Yield	psi	D-638	2,800	3,300	5,200	7,000	7,800
— Break			4,500	4,500			
Impact Strength							
Izod Notched 73°F	ft. lbs./in. notch	D-256	10.0	10.0	8.3	1.5	6.3
— 40°F			1.0	0.9			
Flexural Strength	psi	D-790			8,500	12,000	14,000
Flexural Modulus 73°F	psi	D-790	100,000	115,000	267,000	400,000	427,000
Hardness — Rockwell Shore	R— Scale D	D-785 D-2240	64	68	102	115	120
Elongation % at Break			>800	>800	150		
Cell Classification			234333C	3354444C	42222	12454B	24447
<u>THERMAL</u>							
Thermal Conductivity	BTU/hr./ft ² /°F/in.	C-177	2.7	2.8	2.56	1.46	
Heat Distortion	°F	D-648					
264 psi Load			49	47	174	158	212
66 psi Load			64	75	199	171	
Thermal Coefficient of Expansion	in./in./°F	D-696	8.0x10 ⁻⁵	8.0x10 ⁻⁵	5.5x10 ⁻⁵	3.0x10 ⁻⁵	3.4x10 ⁻⁵
<u>ELECTRICAL</u>							
Dialectric Strength	Volts/Mil	D-150	460			450	
Dialectric Constant		D-150					
60 CPS			2.3		3.54		
1000 CPS			2.3		3.43	4.55	
Power Factor		D-150					
60 CPS					0.005		
1000 CPS					0.006		
10 ⁶ CPS							
Volume Resistivity	Ohms/cm.		10 ¹⁵		3.5x10 ¹⁶		
<u>MISCELLANEOUS</u>							
Water Absorption - 24 Hrs.	% Weight	D-570	0.0019	0.0035	0.2	0.35	.02
Burning Rate	in./min.	D-635	0.94		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.