

Product Data - ACRYLITE CY FF



Property ^(a)	ASTM Method	Typical Value (0.250" Thickness) ^(b)
Mechanical	Specific Gravity	D 792 1.19
	Tensile Strength	D 638 10,000 psi (69 M Pa)
	Elongation, Rupture	4.5%
	Modulus of Elasticity	400,000 psi (2800 M Pa)
	Flexural Strength	D 790 17,000 psi (117 M Pa)
	Modulus of Elasticity	480,000 psi (3300 M Pa)
	Compressive Strength (Yield)	D 695 17,000 psi (117 M Pa)
	Impact Strength Izod Milled Notched	D 256 0.4 ft.lbs/in. of notch (21.6 J/m of notch)
Optical	Rockwell Hardness	D 785 M-93
	Barcol Hardness	D 2583 48
	Refractive Index	D 542 1.49
Thermal	Light Transmission, Total	D 1003 92%
	Forming Temperature	- Approx. 300°F (149°C)
	Deflection Temperature Under Load (264 psi)	D 648 195°F (91°C)
	Vicat Softening Point	D 1525 220°F (105°C)
	Maximum Recommended Continuous Service Temperature	- 160°F(c) (71°C)
	Coefficient of Linear Thermal Expansion	D 696 0.000040 in/in - °F (.000072 m/m - °C)
	Coefficient of Thermal Conductivity	Cenco-Fitch 1.3 BTU/(Hr) (Sq.Ft.) (°F/in.) (0.19 w/m•K)
	Flammability, Burning Rate (0.125" thickness)	D 635 1.0 in/min. (25 mm/min.)
	Self-Ignition Temperature	D 1929 850°F (455°C)
	Specific Heat @ 77°F	- 0.35 BTU/(lb.) (°F) (1470J/Kg•K)
	Smoke Density Rating	D 2843 4.8%
Electrical	Dielectric Strength Short Time (0.125")	D 149 430 volts/mil (17 KV/mm)
	Dielectric Constant	D 150 3.6
	60 Hertz	3.3
	1,000 Hertz	2.8
	1,000,000 Hertz	
	Dissipation Factor	D 150 0.06
	60 Hertz	0.04
	1,000 Hertz	0.02
	1,000,000 Hertz	
Water Absorption 24 hrs @ 73°F	Volume Resistivity	D 257 10 ¹⁶ ohm-cm
	Surface Resistivity	D 257 10 ¹⁵ ohms
		D 570 0.2%
Odor	-	None
Taste	-	None

NOTES:

- (a) Typical values; should not be used for specification purposes.
- (b) Values shown are for 0.250" thickness. Some values will change with thickness or pigmentation.
- (c) It is recommended that temperatures not exceed 160°F for continuous service, or 190°F for short intermittent use.

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