

ACRYLIC

Property	Unit	Test Method	Acrylic
PHYSICAL			
Specific Gravity	g/cm ³	ASTM D792	1.18
Water Absorption 23°C, 24 hr	%	ASTM D570	< 0.30
HARDNESS			
Rockwell Hardness (M-Scale, 23°C)	%	ASTM D785	91
MECHANICAL			
Tensile Strength (Yield, 23°C)	psi	ASTM D638	9,100
Flexural Modulus (23°C)	psi	ASTM D790	479,000
Flexural Strength (23°C)	psi	ASTM D790	18,200
IMPACT			
Notched Izod Impact (23°C, 6.35mm)	J/m	ASTM D256	37.95
THERMAL			
1.8 MPa, Unannealed	°F	ASTM D648	187
Vicat Softening Temperature	°F	ASTM D1525	210
Thermal Expansion (CLTE)	in/in/°F	ASTM D696	3.30E-05
ELECTRICAL			
Volume Resistivity	ohm·cm	ASTM D257	1.00E+15
Dielectric Strength	kV/mm	ASTM D149	20.08
Dielectric Constant (23°C, 60 Hz)	%	ASTM D150	3.100
Dissipation Factor (23°C, 60 Hz)	%	ASTM D150	0.050
FLAMMABILITY			
Flame Rating		UL94	HB
OPTICAL			
Transmittance	%	ASTM D1003	92.00
Haze	%	ASTM D1003	< 0.10

This information reflects the current state of our knowledge and is intended only to assist and advice. It is given without obligation or liability. It does not assure or guarantee chemical resistance, quality of products or their suitability in any legally binding way. Values are not minimum or maximum values, but guidelines that can be used for comparative purposes in material selection. They are within the normal range of product properties and do not represent guaranteed property values. Tests under the particular application circumstances are always recommended.