

ACRYLIC RESIN

Typical Properties

	Value	Units	Test method
Physical			
Melt Flow Rate (230°C /3.8kg)	1.6	g / 10 Min.	ASTM D 1238, 230°C/3.8 kg
Specific Gravity	1.15		ASTM D792
Water Absorption (24hr. Immersion)	0.46	% weight gain	ASTM D-570, Wt gain on 24 hrs water immersion
Mechanical			
Tensile Strength @ Maximum	5,500	psi	ASTM D638
Tensile Elongation @ Break	50	%	ASTM D638
Tensile Modulus	270,000	psi	ASTM D638
Flexural Strength, Maximum (Yield)	10,300	psi	ASTM D790
Flexural Modulus	270,000	psi	ASTM D790
Notched Izod Impact (73°F/23°C)	1.1	ft-lbs. / in	ASTM D256
Rockwell Hardness	45M		ASTM D785
Pencil Hardness	F-2H		ASTM D3363
Thermal			
HDT (0.455 MPa; Annealed) ¹	192 (89)	°F (°C)	ASTM D648
HDT (1.82 MPa; Annealed) ¹	175 (79)	°F (°C)	ASTM D648
Vicat Softening Point (50°C/hr; 10N)	217 (103)	°F (°C)	ASTM D1525
Vicat Softening Point (50°C/hr; 50N)	202 (95)	°F (°C)	ASTM D1525
Thermal Conductivity	1.5	BTU/hr*ft ² *F/in	ASTM C177
Recommended Drying Temp. (Minimum 4 hrs.) ²	180 (82)	°F (°C)	
Optical			
Luminous Transmittance (0.125"/ 3.2 mm)	92	%	ASTM D-1003, 0.125" thickness
Haze (0.125"/ 3.2 mm)	<2	%	ASTM D-1003, 0.125" thickness
UV Screening ³	yes @ 6	mils	

Data given are average values and should not be used for specification purposes

1. Annealing Cycle: 4hrs @ 80°C
2. Recommend drying temperatures assume desiccated air at -40 dew point.
3. Solarkote® acrylic formulations are designed to effectively screen out the high-energy UV wavelength at the noted thickness

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