

Resin

Plexiglas[®] CR50 acrylic resin

PROPERTIES	VALUE	UNITS	TEST METHOD
Physical			
Spiral Flow (240°C)	15	in of flow	2mm channel
Specific Gravity	1.15		ASTM D792
Mold Shrinkage	0.3-0.8	%	ASTM D955
Water Absorption (24 hr. immersion)	0.4	% weight gain	ASTM D570
Mechanical			
Tensile Strength @ Maximum	4,600	PSI	ASTM D638
Tensile Elongation @ Break	46	%	"
Tensile Modulus	225,000	PSI	"
Flexural Strength, maximum (Yield)	6,740	PSI	ASTM D790
Flexural Modulus	225,000	PSI	ASTM D790
Notched Izod Impact (73°F/23°C)	1.6	ft-lb/in notch	ASTM D256
Rockwell Hardness	89	S	ASTM D785
Thermal			
HDT (0.455 MPa; annealed) ¹	176	°F	ASTM D648
Vicat Softening Point (50°C/hr; 50N)	194	°F	ASTM D1525
Optical			
Refractive Index (ND @ 73°F)	1.49		ASTM D542
Luminous Transmittance (0.125"/3.2 mm.)	92	%	ASTM D1003
Haze (0.125 in./3.2 mm.)	<2.5	%	ASTM D1003

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

1. Annealing Cycle: 4hrs @ 76°C

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Plexiglas® and Solarkote® acrylic resins are combustible thermoplastics. Observe fire precautions appropriate for comparable forms of wood and paper. For building uses, check code approvals. Impact resistance is a factor of thickness. Avoid exposure to heat or aromatic solvents. Clean with soap and water. Avoid abrasives.
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