

Typical Physical Properties Plexiglas® VS Acrylic Resin

PROPERTIES	VALUE	TEST METHOD
PHYSICAL		
Melt Flow Rate (230°C / 3.8 kg)	27.0 g / 10 min	ASTM D1238
Specific Gravity	1.18	ASTM D792
Mold Shrinkage	0.2-0.6 %	ASTM D955
Water Absorption (24 hr. immersion)	0.3 % weight gain	ASTM D570
MECHANICAL		
Tensile Strength @ Maximum	9,400 psi	ASTM D638
Tensile Elongation @ Break	3 %	ASTM D638
Tensile Modulus	420,000 psi	ASTM D638
Flexural Strength, maximum	14,000 psi	ASTM D790
Flexural Modulus	430,000 psi	ASTM D790
Notched Izod (73°F/23°C)	0.3 ft-lb/in notch	ASTM D256
Rockwell Hardness	84 M	ASTM D785
THERMAL		
HDT (0.455 MPa; annealed)	177 F	ASTM D648
HDT (1.82 MPa; annealed)	169 F	ASTM D648
Vicat Softening Point (50°C/hr; 10N)	189 F	ASTM D1525
Vicat Softening Point (50°C/hr; 50N)	178 F	ASTM D1525
Thermal Conductivity	1.3 BTU/hr*ft ² *F/in	ASTM C177
OPTICAL		
Refractive Index (N _D @ 73°F)	1.49	ASTM D542
Luminous Transmittance (0.125"/3.2 mm.)	92 %	ASTM D1003
Haze (0.125 in./3.2 mm.)	<2 %	ASTM D1003
ASTM Classification	PMMA 0111V7	ASTM D788

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See MSDS for Health & Safety Considerations.

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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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