

Typical Physical Properties  
**Plexiglas® MI-7C 56503 RB**  
Acrylic Resin

<b>PROPERTIES</b>	<b>VALUE</b>	<b>TEST METHOD</b>
<b>PHYSICAL</b>		
Melt Flow Rate (230°C / 3.8 kg)	1.8 g / 10 min	ASTM D1238
Specific Gravity	1.17	ASTM D792
Mold Shrinkage	0.3-0.6 %	ASTM D955
Water Absorption (24 hr. immersion)	0.3 % weight gain	ASTM D570
<b>MECHANICAL</b>		
Tensile Strength @ Maximum	7,500 psi	ASTM D638
Tensile Elongation @ Break	35 %	ASTM D638
Tensile Modulus	350,000 psi	ASTM D638
Flexural Strength, maximum	12,000 psi	ASTM D790
Flexural Modulus	350,000 psi	ASTM D790
Notched Izod (73°F/23°C)	0.6 ft-lb/in notch	ASTM D256
Rockwell Hardness	70 M	ASTM D785
<b>THERMAL</b>		
HDT (0.455 MPa; annealed)	212 F	ASTM D648
HDT (1.82 MPa; annealed)	203 F	ASTM D648
Vicat Softening Point (50°C/hr; 10N)	226 F	ASTM D1525
Vicat Softening Point (50°C/hr; 50N)	205 F	ASTM D1525
Thermal Conductivity	1.4 BTU/hr*ft <sup>2</sup> *F/in	ASTM C177
ASTM Classification	PMMA0221	ASTM D788

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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.

See MSDS for Health & Safety Considerations.

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