

Typical Physical Properties  
**Plexiglas® SG10-101**  
Acrylic Resin

<b>PROPERTIES</b>	<b>VALUE</b>	<b>TEST METHOD</b>
<b>PHYSICAL</b>		
Melt Flow Rate (230°C / 3.8 kg)	4.1 g / 10 min	ASTM D1238
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
<b>MECHANICAL</b>		
Tensile Strength @ Maximum	5,300 psi	ASTM D638
Tensile Elongation @ Break	50 %	ASTM D638
Tensile Modulus	270,000 psi	ASTM D638
Flexural Strength, maximum	10,300 psi	ASTM D790
Flexural Modulus	270,000 psi	ASTM D790
Notched Izod (73°F/23°C)	0.9 ft-lb/in notch	ASTM D256
Rockwell Hardness	38 M	ASTM D785
<b>THERMAL</b>		
HDT (0.455 MPa; annealed)	190 F	ASTM D648
HDT (1.82 MPa; annealed)	181 F	ASTM D648
Vicat Softening Point (50°C/hr; 10N)	199 F	ASTM D1525
Vicat Softening Point (50°C/hr; 50N)	176 F	ASTM D1525
Thermal Conductivity	1.5 BTU/hr*ft <sup>2</sup> *F/in	ASTM C177
<b>OPTICAL</b>		
Refractive Index (N <sub>D</sub> @ 73°F)	1.49	ASTM D542
Luminous Transmittance (0.125"/3.2 mm.)	90 %	ASTM D1003
Haze (0.125 in./3.2 mm.)	<2 %	ASTM D1003
ASTM Classification	PMMA 0230V2	ASTM D788

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See MSDS for Health & Safety Considerations.

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