



Plexiglas® SG10-101 Acrylic Resin



PROPERTIES	VALUE	UNITS	TEST METHOD
PHYSICAL			
Melt Flow Rate (230°C/3.8kg)	4.1	g/10 min	ASTM D1238
Specific Gravity	1.15		ASTM D792
Mold Shrinkage	0.3-0.8	%	ASTM D955
Water Absorption (24hr. immersion)	0.4	% weight gain	ASTM D 570
MECHANICAL			
Tensile Strength @ Maximum	5,300	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)	0,9	Ft-lb/in notch	ASTM D256
Rockwell Hardness	38	M	ASTM D785
THERMAL			
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 ² *F/in	ASTM C177
OPTICAL			
Refractive Index (ND @ 73°F)	1.49		ASTM D542
Luminous Transmittance (0.125"/3.2mm.)	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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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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