Plexiglas®
where original ideas take shape

Resin

Plexiglas® SG10 acrylic resin

PROPERTIES	VALUE	UNITS	TEST METHOD
Physical			
Spiral Flow Rate (240°C)	18	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 Strenght @ Maximum	5,300	PSI	ASTM D638
Tensile Elongation @ Break	50	%	"
Tensile Modulus	270,000	PSI	"
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	AST M D256
Rockwell Hardness	38	M	ASTM D785
Thermal			
HDT (0.455 MPa; annealed)[1]	190	°F	ASTM D648
HDT (1.82 MPa; annealed)[1]	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*ft2*F/in	ASTM C177
Optical			
Refractive Index (ND @ 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

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

1. Annealing Cycle: 4hrs @ 80°C

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See MSDS for Health & Safety Considerations.
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