ALTUGLAS INTERNATIONAL
ARKEMA GROUP

Typical Physical Properties
Plexiglas DR-101
Acrylic Resin

PROPERTIES	VALUE		TEST METHOD
PHYSICAL			
Melt Flow Rate (230°C / 3.8 kg)	1.0	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
MECHANICAL			
Tensile Strength @ Maximum	5,500	psi	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)	1.1	ft-lb/in notch	ASTM D256
Rockwell Hardness	45	M	ASTM D785
THERMAL			
HDT (0.455 MPa; annealed)	192	F	ASTM D648
HDT (1.82 MPa; annealed)	175	F	ASTM D648
Vicat Softening Point (50°C/hr; 10N)	208	F	ASTM D1525
Vicat Softening Point (50°C/hr; 50N)	187	F	ASTM D1525
Thermal Conductivity	1.5	BTU/hr*ft2*F/in	ASTM C177
OPTICAL			
Refractive Index (N_D @ 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 0231V1		ASTM D788

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.