

Resin

Plexiglas® DR®-100 acrylic resin

PROPERTIES	VALUE	UNITS	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 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)	1.1	ft-lb/in notch	ASTM D256
Rockwell Hardness	45	M	ASTM D785
Thermal			
HDT (0.455 MPa; annealed) ¹	192	°F	ASTM D648
HDT (1.82 MPa; annealed) ¹	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*ft ² *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 0231V1	ASTM D788

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

1. Annealing Cycle: 4hrs @ 80°C

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, Arkema Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OR MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE

See MSDS for Health & Safety Considerations.
 Altuglas®, Plexiglas®, DR®, VOD® and Solarkote® are registered trademarks of Arkema.
 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.
 © January 2009 Arkema Inc. All rights reserved.

ALTUGLAS
 INTERNATIONAL
 ARKEMA GROUP

Altuglas International
 2000 Market Street
 Philadelphia, PA 19103