

Typical Physical Properties
Plexiglas® V045i
Acrylic Resin

PROPERTIES	VALUE	TEST METHOD
PHYSICAL		
Melt Flow Rate (230°C / 3.8 kg)	2.1 g / 10 min	ASTM D1238
Specific Gravity	1.19	ASTM D792
Mold Shrinkage	0.2-0.6 %	ASTM D955
Water Absorption (24 hr. immersion)	0.3 % weight gain	ASTM D570
MECHANICAL		
Tensile Strength @ Maximum	9,800 psi	ASTM D638
Tensile Elongation @ Break	15 %	ASTM D638
Tensile Modulus	430,000 psi	ASTM D638
Flexural Strength, maximum	14,300 psi	ASTM D790
Flexural Modulus	425,000 psi	ASTM D790
Notched Izod (73°F/23°C)	0.4 ft-lb/in notch	ASTM D256
Rockwell Hardness	89 M	ASTM D785
THERMAL		
HDT (0.455 MPa; annealed)	198 F	ASTM D648
HDT (1.82 MPa; annealed)	195 F	ASTM D648
Vicat Softening Point (50°C/hr; 10N)	213 F	ASTM D1525
Vicat Softening Point (50°C/hr; 50N)	198 F	ASTM D1525
Thermal Conductivity	1.3 BTU/hr*ft ² *F/in	ASTM C177
OPTICAL		
Refractive Index (N _D @ 73°F)	1.49	ASTM D542
Luminous Transmittance (0.125"/3.2 mm.)	92 %	ASTM D1003
Haze (0.125 in./3.2 mm.)	<2 %	ASTM D1003
ASTM Classification	PMMA 0200V1CC100PA018	ASTM D788

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 CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein should be construed as an inducement to infringe any patent, and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.

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.

© 2006 Arkema Inc. All rights reserved.