

Altuglas® GRANITE

Polymethyl Methacrylate Acrylic
Altuglas International of Arkema Inc.

General		
Material Status	• Commercial: Active	
Availability	• Asia Pacific	• Europe
Forms	• Granules	

Physical	Nominal Value Unit	Test Method
Density	1.18 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	0.80 g/10 min	ISO 1133
Molding Shrinkage - Flow	0.30 to 0.60 %	ASTM D955
Water Absorption (Equilibrium, 23°C, 50% RH)	0.30 %	ISO 62

Mechanical	Nominal Value Unit	Test Method
Tensile Stress (Yield, 23°C)	40.0 MPa	ISO 527-2
Tensile Strain (Break, 23°C)	12 %	ISO 527-2
Flexural Modulus (23°C)	1930 MPa	ISO 178
Flexural Strength (23°C)	61.0 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Notched Izod Impact Strength (23°C)	39 kJ/m ²	ISO 180/1A

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (M-Scale)	45	ASTM D785

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature 1.8 MPa, Unannealed	80.0 °C	ISO 75-2/A
Vicat Softening Temperature	91.5 °C	ISO 306/B

Injection	Nominal Value Unit
Drying Temperature	80.0 to 85.0 °C
Drying Time	2.0 to 4.0 hr
Processing (Melt) Temp	220 to 240 °C

Notes

¹ Typical properties: these are not to be construed as specifications.