

Altuglas® DR FROSTED

Polymethyl Methacrylate Acrylic

Altuglas International of Arkema Inc.

General		
Material Status	• Commercial: Active	
Availability	• Asia Pacific	• Europe
Appearance	• Frost	
Forms	• Granules	
Physical	Nominal Value Unit	Test Method
Density	1.16 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 0.80 %	ASTM D955
Water Absorption (Equilibrium, 23°C, 50% RH)	0.30 %	ISO 62
Mechanical	Nominal Value Unit	Test Method
Tensile Stress (Yield, 23°C)	53.0 MPa	ISO 527-2
Tensile Strain (Break, 23°C)	38 %	ISO 527-2
Flexural Modulus (23°C)	2300 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Notched Izod Impact Strength (23°C)	3.7 kJ/m ²	ISO 180/1A
Instrumented Dart Impact		ASTM D3763
First Break Energy	0.810 J	
Total Energy	8.14 J	
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (M-Scale)	50	ASTM D785
Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	103 °C	ISO 306/A50
UL	Nominal Value Unit	Test Method
RTI Str	91.5 °C	UL 746
RTI Imp	91.5 °C	UL 746
RTI Elec	91.5 °C	UL 746
Optical	Nominal Value Unit	Test Method
Transmittance ² (Total)	84.0 %	ASTM D1003
Haze	98 %	ASTM D1003
Additional Information	Nominal Value Unit	Test Method
Chemical Resistance - ARTC Modified ³	3.5 min	MIL P-6997
Injection	Nominal Value Unit	
Drying Temperature	80.0 to 85.0 °C	
Drying Time	2.0 to 4.0 hr	
Processing (Melt) Temp	215 to 245 °C	
Mold Temperature	70.0 to 80.0 °C	

Notes

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

² White

³ Time to craze, 70% IPA, 1% strain