

Altuglas® MI-2T

Polymethyl Methacrylate Acrylic

Altuglas International of Arkema Inc.

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	
Additive	• Antiblock	• Lubricant	
Features	• Antiblocking • Good Impact Resistance	• Good UV Resistance • High Heat Resistance	• Lubricated
Appearance	• Clear/Transparent		
Forms	• Granules		
Processing Method	• Blow Molding • Extrusion	• Injection Molding • Profile Extrusion	• Thermoforming
Physical	Nominal Value Unit	Test Method	
Density	1180 kg/m ³	ISO 1183 ²	
Melt volume-flow rate (230°C/3.8 kg)	3.00 cm ³ /10min	ISO 1133 ²	
Water Absorption		ISO 62 ²	
Saturation	2.0 %		
Equilibrium	0.31 %		
Mechanical	Nominal Value Unit	Test Method	
Tensile modulus	3000 MPa	ISO 527-2 ²	
Tensile Stress (Yield)	78.0 MPa	ISO 527-2 ²	
Tensile Strain (Yield)	4.0 %	ISO 527-2 ²	
Nominal strain at break	10 %	ISO 527-2 ²	
Tensile Creep Modulus		ISO 899-1 ²	
1 hr	2600 MPa		
1000 hr	1700 MPa		
Impact	Nominal Value Unit	Test Method	
Charpy notched impact strength (23°C)	3.00 kJ/m ²	ISO 179/1eA ²	
Charpy impact strength (23°C)	25.0 kJ/m ²	ISO 179/1eU ²	
Thermal	Nominal Value Unit	Test Method	
Deflection Temperature Under Load		ISO 75-2 ²	
0.45 MPa	102 °C		
1.8 MPa	99.0 °C		
Vicat Softening Temperature		ISO 306 ²	
50°C/h, B (50N)	107 °C		
CLTE - Flow	0.000070 cm/cm/°C	ISO 11359-2 ²	
Electrical	Nominal Value Unit	Test Method	
Surface resistivity	1.0E+14 ohm	IEC 60093 ²	
Volume resistivity	1.0E+13 ohm·m	IEC 60093 ²	
Relative Permittivity		IEC 60250 ²	
100 Hz	4.00		
1 MHz	3.00		
Dissipation Factor		IEC 60250 ²	
100 Hz	0.050		
1 MHz	0.040		
Comparative tracking index	600	IEC 60112 ²	
Electric strength	19 kV/mm	IEC 60243-1 ²	
Flammability	Nominal Value Unit	Test Method	
Burning Behav. at 1.6mm nom. thickn.		ISO 1210 ²	
1.60 mm	HB		