

Altuglas® MI-2T

Polymethyl Methacrylate Acrylic
Altuglas International of Arkema Inc.

Message:

Altuglas® MI-2T is a Polymethyl Methacrylate Acrylic product. It can be processed by blow molding, extrusion, injection molding, profile extrusion, or thermoforming and is available in Asia Pacific or Europe. Typical application: Automotive.

Characteristics include:

- Antiblock
- Good UV Resistance
- Heat Resistant
- Impact Resistant
- Lubricated

General Information	
UL YellowCard	E106635-218390
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 ¹
Melt volume-flow rate (230°C/3.8 kg)	3.00	cm ³ /10min	ISO 1133 ²
Water Absorption			ISO 62 ³
Saturation	2.0	%	
Equilibrium	0.31	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	3000	MPa	ISO 527-2 ⁴
Tensile Stress (Yield)	78.0	MPa	ISO 527-2 ⁵
Tensile Strain (Yield)	4.0	%	ISO 527-2 ⁶

Nominal strain at break	10	%	ISO 527-2 ⁷
Tensile Creep Modulus			ISO 899-1 ⁸
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 ⁹
Charpy impact strength (23°C)	25.0	kJ/m ²	ISO 179/1eU ¹⁰
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2 ¹¹
0.45 MPa	102	°C	
1.8 MPa	99.0	°C	
Vicat Softening Temperature (50°C/h, B (50N))	107	°C	ISO 306 ¹²
CLTE - Flow	7.0E-5	cm/cm/°C	ISO 11359-2 ¹³
Electrical	Nominal Value	Unit	Test Method
Surface resistivity	1.0E+14	ohms	IEC 60093 ¹⁴
Volume resistivity	1.0E+13	ohms·m	IEC 60093 ¹⁵
Electric strength	19	kV/mm	IEC 60243-1 ¹⁶
Relative Permittivity			IEC 60250 ¹⁷
100 Hz	4.00		
1 MHz	3.00		
Dissipation Factor			IEC 60250 ¹⁸
100 Hz	0.050		
1 MHz	0.040		
Comparative tracking index	600		IEC 60112 ¹⁹
Flammability	Nominal Value	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	HB		ISO 1210 ²⁰
NOTE			

1.

Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

2.

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3.

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4.

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5.

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19.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
20.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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