

Altuglas® SG-10

Polymethyl Methacrylate Acrylic
Altuglas International of Arkema Inc.

Message:

Altuglas® SG-10 is a Polymethyl Methacrylate Acrylic product. It is available in Asia Pacific or Europe. Primary characteristic: flame rated.

General Information			
UL YellowCard	E39437-102073164		
Forms	Granules		
Multi-Point Data	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	4.5	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.20 to 0.60	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 50% RH)	0.36	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	37		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 23°C)	37.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	30	%	ISO 527-2
Flexural Modulus (23°C)	1700	MPa	ISO 178
Flexural Stress (23°C)	60.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/2C
Charpy Unnotched Impact Strength (23°C)	40	kJ/m ²	ISO 179/2U
Notched Izod Impact Strength (23°C)	5.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	80.0	°C	ISO 75-2/A
Vicat Softening Temperature	90.0	°C	ISO 306/B
CLTE - Flow (-30 to 23°C)	1.0E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+14	ohms	ASTM D257
Volume Resistivity	> 1.0E+15	ohms · cm	ASTM D257
Dielectric Strength	15	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	3.90		ASTM D150
Dissipation Factor (1 MHz)	0.040		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method

Refractive Index ¹	1.490		ISO 489
Transmittance	90.0	%	ASTM D1003
Haze	2.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	75.0 to 80.0	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	225 to 245	°C	
Mold Temperature	60.0 to 70.0	°C	
NOTE			
1.	Method B		

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