

Altuglas® HFI-7 Frosted 18

Polymethyl Methacrylate Acrylic
Altuglas International of Arkema Inc.

Message:

Altuglas® HFI-7 Frosted 18 is a Polymethyl Methacrylate Acrylic product. It is available in Asia Pacific or Europe. Primary characteristic: flame rated.

General Information			
Appearance	Frost		
Forms	Granules		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	5.5	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.20 to 0.60	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 50% RH)	0.32	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	50.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	20	%	ISO 527-2
Flexural Modulus (23°C)	2300	MPa	ISO 178
Flexural Stress (23°C)	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.7	kJ/m²	ISO 179/2C
Charpy Unnotched Impact Strength (23°C)	32	kJ/m²	ISO 179/2U
Notched Izod Impact Strength (23°C)	3.0	kJ/m²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	81.0	°C	ISO 75-2/A
Vicat Softening Temperature	97.0	°C	ISO 306/B
CLTE - Flow (-30 to 23°C)	8.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Refractive Index ¹	1.490		ISO 489
Transmittance	88.0	%	ASTM D1003
Haze	100	%	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	215 to 235	°C	
Mold Temperature	60.0 to 70.0	°C	
NOTE			

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