

Altuglas® HT 121

Polymethyl Methacrylate Acrylic
Altuglas International of Arkema Inc.

Message:

Altuglas® HT 121 is a Polymethyl Methacrylate Acrylic product. It is available in Asia Pacific or Europe. Typical application: Automotive. Primary characteristic: flame rated.

General Information			
UL YellowCard	E106635-218389		
Forms	Granules		
Multi-Point Data	Specific Volume vs Temperature (ISO 11403-2)		
	Viscosity vs. Shear Rate (ISO 11403-2)		

Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.0	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.20 to 0.60	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 50% RH)	0.40	%	ISO 62

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	102		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	70.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	5.0	%	ISO 527-2
Flexural Modulus (23°C)	3450	MPa	ISO 178
Flexural Stress (23°C)	103	MPa	ISO 178
Compressive Stress (23°C)	117	MPa	ISO 604

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0	kJ/m ²	ISO 179/2C
Charpy Unnotched Impact Strength (23°C)	11	kJ/m ²	ISO 179/2U
Notched Izod Impact Strength (23°C)	1.8	kJ/m ²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	119	°C	ISO 75-2/B
1.8 MPa, Unannealed	110	°C	ISO 75-2/A
Vicat Softening Temperature	121	°C	ISO 306/B
CLTE - Flow (-30 to 23°C)	6.5E-5	cm/cm/°C	ASTM D696
Specific Heat	2090	J/kg/°C	
Thermal Conductivity (23°C)	0.22	W/m/K	

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	20	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	3.70		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	92.0	%	ASTM D1003
Haze	0.50	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	4.0 to 6.0	hr	
Processing (Melt) Temp	240 to 250	°C	
Mold Temperature	80.0 to 90.0	°C	
NOTE			

1. Method B

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