

Altuglas® VS

Polymethyl Methacrylate Acrylic
Altuglas International of Arkema Inc.

Message:

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

General Information			
Forms	Granules		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	24	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.20 to 0.60	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 50% RH)	0.30	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	84		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	66.0	MPa	ISO 527-2
Tensile Strain (Break)	5.0	%	ISO 527-2
Flexural Modulus	2900	MPa	ISO 178
Flexural Stress	97.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.0	kJ/m ²	ISO 179/2C
Charpy Unnotched Impact Strength	11	kJ/m ²	ISO 179/2U
Notched Izod Impact Strength	1.8	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	76.0	°C	ISO 75-2/A
Vicat Softening Temperature	85.0	°C	ISO 306/B
CLTE - Flow	7.0E-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	92.0	%	ASTM D1003
Haze	0.45	%	ASTM D1003
Injection	Nominal Value	Unit	

Drying Temperature	70.0 to 75.0	°C
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	190 to 210	°C
Mold Temperature	50.0 to 60.0	°C

NOTE

1.
- Method B

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