

Altuglas® VML 100

Polymethyl Methacrylate Acrylic
Altuglas International of Arkema Inc.

Message:

Altuglas® VML 100 is a Polymethyl Methacrylate Acrylic product. It is available in Asia Pacific or Europe. Primary characteristic: flame rated.

General Information			
UL YellowCard	E106635-101282922		
Forms	Granules		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	15	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)	89		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	65.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	5.0	%	ISO 527-2
Flexural Modulus (23°C)	3100	MPa	ISO 178
Flexural Stress (23°C)	97.0	MPa	ISO 178
Compressive Stress (23°C)	97.0	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	82.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	77.0	°C	ISO 75-2/A
Vicat Softening Temperature	90.0	°C	ISO 306/B
CLTE - Flow (-30 to 23°C)	7.0E-5	cm/cm/°C	ASTM D696
Specific Heat	2090	J/kg/°C	
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	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	200	°C	
Mold Temperature	50.0 to 60.0	°C	
NOTE			

1. Method B

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