

Altuglas® VSE UVT

Polymethyl Methacrylate Acrylic
Altuglas International of Arkema Inc.

Message:
TP 727

General Information			
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)	27	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, 23°C)	66.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	5.0	%	ISO 527-2
Flexural Modulus (23°C)	2900	MPa	ISO 178
Flexural Stress (23°C)	97.0	MPa	ISO 178
Compressive Stress (23°C)	100	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	80.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	76.0	°C	ISO 75-2/A
Vicat Softening Temperature	85.0	°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	75.0 to 80.0	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	195 to 200	°C	
Mold Temperature	50.0 to 60.0	°C	
NOTE			

1. Method B

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

