Altuglas® V 920

PMMA — Altuglas International

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**8**	g/10min	ISO 1133
Temperature	**230**	°C	-
Load	**3.8**	kg	-
ASTM Data			
Mold Shrinkage, MD	**0.004**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Strength	**69**	MPa	ISO 527
Strain at break	**6**	%	ISO 527
Flexural modulus, 23°C	**3300**	MPa	ISO 178
Charpy impact strength, +23°C	**11**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**2**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**1.8**	kJ/m²	ISO 180/1A
ASTM Data			
Rockwell Hardness	**M 95**	-	ASTM D 785

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**90**	°C	ISO 75-1/-2
Vicat softening temperature, B	**101**	°C	ISO 306
ASTM Data			
UL 94 Flame rating	**HB**	-	UL 94
Coefficient of Thermal Expansion, MD	**70**	E-6/K	ASTM D 696

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	**19.7**	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	**0.04**	-	ASTM D 150
Dielectric Constant, 60 Hz	**3.7**	-	ASTM D 150
Surface Resistivity	**1E14**	Ohm	ASTM D 257
Volume Resistivity	**>1E15**	Ohm*cm	ASTM D 257

Optical properties	Value	Unit	Test Standard
ASTM Data			
Haze	**0.5**	%	ASTM D 1003
Light Transmittance	**92**	%	ASTM D 1003

Other properties	Value	Unit	Test Standard
Humidity absorption	**0.3**	%	Sim. to ISO 62
Density	**1180**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**70 - 80**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Melt temperature	**210 - 220**	°C	-
Mold temperature	**70 - 80**	°C	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Special Characteristics
Transparent