Altuglas® V 920

Polymethyl Methacrylate Acrylic

Altuglas International of Arkema Inc.

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	
Additive	• Antiblock	• Lubricant	
Features	• Antiblocking	• Good UV Resistance	• Lubricated
Appearance	• Clear/Transparent		
Forms	• Granules		
Processing Method	• Injection Molding	• Thermoforming	
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	1180	kg/m³	ISO 1183 [2]
Melt volume-flow rate (230°C/3.8 kg)	7.00	cm³/10min	ISO 1133 [2]
Water Absorption			ISO 62 [2]
Saturation	1.9	%	
Equilibrium	0.30	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile modulus	3300	MPa	ISO 527-2 [2]
Tensile Stress (Break)	69.0	MPa	ISO 527-2 [2]
Tensile Strain (Break)	6.0	%	ISO 527-2 [2]
Tensile Creep Modulus			ISO 899-1 [2]
1 hr	2700	MPa	
1000 hr	1800	MPa	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy notched impact strength (23°C)	2.00	kJ/m²	ISO 179/1eA [2]
Charpy impact strength (23°C)	20.0	kJ/m²	ISO 179/1eU [2]
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ISO 75-2 [2]
0.45 MPa	100	°C	
1.8 MPa	90.0	°C	
Vicat Softening Temperature			ISO 306 [2]
50°C/h, B (50N)	101	°C	
CLTE - Flow	0.000070	cm/cm/°C	ISO 11359-2 [2]
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface resistivity	1.0E+14	ohm	IEC 60093 [2]
Volume resistivity	1.0E+13	ohm·m	IEC 60093 [2]
Relative Permittivity			IEC 60250 [2]
100 Hz	4.00		
1 MHz	3.00		
Dissipation Factor			IEC 60250 [2]
100 Hz	0.050		
1 MHz	0.040		
Comparative tracking index	600		IEC 60112 [2]
Electric strength	20	kV/mm	IEC 60243-1 [2]
Flammability	**Nominal Value**	**Unit**	**Test Method**
Burning Behav. at 1.6mm nom. thickn.			ISO 1210 [2]
1.60 mm	HB		

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.