

Altuglas® V 920

Polymethyl Methacrylate Acrylic
Altuglas International of Arkema Inc.

Message:

Altuglas® V 920 is a Polymethyl Methacrylate Acrylic product. It can be processed by injection molding or thermoforming and is available in Asia Pacific or Europe. Typical application: Automotive.
Characteristics include:
Antiblock
Good UV Resistance
Lubricated

General Information	
UL YellowCard	E106635-218396
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/m ³	ISO 1183 ¹
Melt volume-flow rate (230°C/3.8 kg)	7.00	cm ³ /10min	ISO 1133 ²
Water Absorption			ISO 62 ³
Saturation	1.9	%	
Equilibrium	0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	3300	MPa	ISO 527-2 ⁴
Tensile Stress (Break)	69.0	MPa	ISO 527-2 ⁵
Tensile Strain (Break)	6.0	%	ISO 527-2 ⁶
Tensile Creep Modulus			ISO 899-1 ⁷
1 hr	2700	MPa	
1000 hr	1800	MPa	

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	2.00	kJ/m ²	ISO 179/1eA ⁸
Charpy impact strength (23°C)	20.0	kJ/m ²	ISO 179/1eU ⁹
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2 ¹⁰
0.45 MPa	100	°C	
1.8 MPa	90.0	°C	
Vicat Softening Temperature (50°C/h, B (50N))	101	°C	ISO 306 ¹¹
CLTE - Flow	7.0E-5	cm/cm/°C	ISO 11359-2 ¹²
Electrical	Nominal Value	Unit	Test Method
Surface resistivity	1.0E+14	ohms	IEC 60093 ¹³
Volume resistivity	1.0E+13	ohms · m	IEC 60093 ¹⁴
Electric strength	20	kV/mm	IEC 60243-1 ¹⁵
Relative Permittivity			IEC 60250 ¹⁶
100 Hz	4.00		
1 MHz	3.00		
Dissipation Factor			IEC 60250 ¹⁷
100 Hz	0.050		
1 MHz	0.040		
Comparative tracking index	600		IEC 60112 ¹⁸
Flammability	Nominal Value	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	HB		ISO 1210 ¹⁹
NOTE			
1.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
2.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
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4.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
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13.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
14.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
15.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
16.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
17.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
18.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
19.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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Recommended distributors for this material

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



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