Altuglas® V 045 I

Polymethyl Methacrylate Acrylic

Altuglas International of Arkema Inc.

Message:

Altuglas® V 045 I is a Polymethyl Methacrylate Acrylic product. It can be processed by blow molding, extrusion, injection molding, profile extrusion, sheet extrusion, or thermoforming and is available in Asia Pacific or Europe.
Characteristics include:
Antiblock
Good UV Resistance
Impact Resistant
Lubricated

General Information		
UL YellowCard	E106635-218394	E39437-231436
Additive	Antiblock Lubricant	
Features	Antiblocking Good Impact Resistance Good UV Resistance Lubricated	
Appearance	Clear/Transparent	
Forms	Granules	
Processing Method	Blow Molding Extrusion Injection Molding Profile Extrusion Sheet Extrusion Thermoforming	

Physical	Nominal Value	Unit	Test Method
Density	1180	kg/m³	ISO 1183 [1]
Melt volume-flow rate (230°C/3.8 kg)	1.90	cm³/10min	ISO 1133 [2]
Water Absorption			ISO 62 [3]
Saturation	2.0	%	
Equilibrium	0.30	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile modulus	3000	MPa	ISO 527-2 [4]
Tensile Stress (Break)	65.0	MPa	ISO 527-2 [5]
Tensile Strain (Break)	10	%	ISO 527-2 [6]
Tensile Creep Modulus			ISO 899-1 [7]

1 hr	2600	MPa	
1000 hr	1700	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	3.00	kJ/m²	ISO 179/1eA [8]
Charpy impact strength (23°C)	25.0	kJ/m²	ISO 179/1eU [9]
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2 [10]
0.45 MPa	94.0	°C	
1.8 MPa	92.0	°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	19	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.		
3.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
4.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
5.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
6.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		

7.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
8.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
9.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
10.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
11.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
12.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
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.

Recommended distributors for this material

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