

Arkema Group Altuglas® 84 L Acrylic-Styrene Copolymer

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Polystyrene (PS) , Styrene/Methyl Methacrylate Copolymer (SMMA)

Material Notes:

ALTUGLAS 84 L is a new type of acrylic polymer produced by ATOHAAS which increases the range of material for injection molding applications. ALTUGLAS 84 L is a styrene methylmethacrylate copolymer studied in order to meet the need for an high performance clear product able to resist in applications requiring good crazing resistance. Outstanding features: clarity and brilliance scratch resistance easy processing UV stability resistance to household detergent and dishwasher cycling good crazing resistance Typical application : salad bowls, tumblers, cutlery handles and other house ware parts that require resistance to dishwasher cycling. medical devises. bath room accessories. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Altuglas-84-L-Acrylic-Styrene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	
Water Absorption	1.0 %	1.0 %	
Moisture Absorption at Equilibrium	0.15 %	0.15 %	Humidity Absorption
Melt Flow	4.6 g/10 min @Load 3.80 kg, Temperature 230 °C	4.6 g/10 min @Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	85.0 MPa	12300 psi	50 mm/min
Elongation at Break	6.0 %	6.0 %	Nominal Strain; 50 mm/min
Tensile Modulus	3.30 GPa	479 ksi	1 mm/min
Charpy Impact Unnotched	2.00 J/cm ²	9.52 ft-lb/in ²	
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	2700 MPa	392000 psi	
Tensile Creep Modulus, 1000 hours	1800 MPa	261000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	65.0 µm/m-°C @Temperature 20.0 °C	36.1 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	98.0 °C	208 °F	50°C/hr; 50N
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Optical Properties	Metric	English	Comments
Transmission, Visible	80 %	80 %	Mfr. reports 'Transparent' but doesn't quantify.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Constant	3.2	3.2	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.7	3.7	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	19.7 kV/mm	500 kV/in	
Dissipation Factor	0.040	0.040	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.050	0.050	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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