

LG Chemical SI-610 Alphasac Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

High flow, High gloss and high impact equivalent to ABS, Excellent mechanical properties compare with general HIPS, Meet requirements for cost and quality, Applications include big size electric appliances

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-SI-610-Alphasac-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	ASTM D955
Melt Flow	6.5 g/10 min @Load 5.00 kg, Temperature 200 °C	6.5 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	98	98	ASTM D785
Tensile Strength, Yield	26.5 MPa	3840 psi	50 mm/min; ASTM D638
Elongation at Break	70 %	70 %	50 mm/min; ASTM D638
Flexural Yield Strength	44.2 MPa	6410 psi	15 mm/min; ASTM D790
Flexural Modulus	2.20 GPa	319 ksi	15 mm/min; ASTM D790
Izod Impact, Notched	1.47 J/cm @Thickness 6.35 mm	2.75 ft-lb/in @Thickness 0.250 in	ASTM D256
	1.76 J/cm @Thickness 3.17 mm	3.30 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	81.0 °C @Thickness 12.7 mm	178 °F @Thickness 0.500 in	Unannealed; ASTM D648
Vicat Softening Point	101 °C	214 °F	1000 g; ASTM D1525
Flammability, UL94	HB	HB	1/16 in
	HB	HB	1/8 in
	34.0 mm/min	1.34 in/min	

Flame Spread Thermal Properties	Metric @ Thickness 3.17 mm	English @ Thickness 0.125 in	FH3 Comments
Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	UL Rating PLC 6 (60-120 sec)
Comparative Tracking Index	400 - 600 V	400 - 600 V	UL Rating PLC 1 (400-600 volts)
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	UL Rating PLC 3 (15-30 sec)
High Amp Arc Ignition, HAI	60 - 120 arcs	60 - 120 arcs	UL Rating PLC 1 (60-120 arcs)
High Voltage Arc-Tracking Rate, HVTR	10.0 - 25.4 mm/min	0.394 - 1.00 in/min	UL Rating PLC 1 (10-25.4 mm/min)

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