

LG Chemical SG-950 Alphas Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-SG-950-Alphas-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	5.0 g/10 min @Load 5.00 kg, Temperature 200 °C	5.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	104	104	ASTM D785
Tensile Strength, Yield	36.3 MPa	5260 psi	50 mm/min; ASTM D638
Elongation at Break	40 %	40 %	50 mm/min; ASTM D638
Flexural Yield Strength	54.0 MPa	7830 psi	15 mm/min; ASTM D790
Flexural Modulus	2.40 GPa	348 ksi	15 mm/min; ASTM D790
Izod Impact, Notched	0.930 J/cm @Thickness 6.35 mm	1.74 ft-lb/in @Thickness 0.250 in	ASTM D256
	1.27 J/cm @Thickness 3.17 mm	2.38 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	82.0 °C @Thickness 12.7 mm	180 °F @Thickness 0.500 in	Unannealed; ASTM D648
Vicat Softening Point	102 °C	216 °F	1000 g; ASTM D1525
Flammability, UL94	HB	HB	1/16 in
	HB	HB	1/8 in
	35.0 mm/min	1.38 in/min	

Flame Spread Thermal Properties	Metric @ Thickness 3.17 mm	English @ Thickness 0.125 in	FH3 Comments
Electrical Properties	Metric	English	Comments
Comparative Tracking Index	>= 600 V	>= 600 V	UL Rating PLC 0 (>600 volts)
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	UL Rating PLC 3 (15-30 sec)
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL Rating PLC 0 (>120 arcs)
High Voltage Arc-Tracking Rate, HVTR	<= 10.0 mm/min	<= 0.394 in/min	UL Rating PLC 0 (0-10 mm/min)

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