

LG Chemical 92HR SAN Resin

Category : Polymer , Thermoplastic , SAN Polymer , Styrene Acrylonitrile (SAN), Molded

Material Notes:

Heat and chemical resistance, Good mechanical properties, Excellent processability, Superior transparency, Good dimensional stability, Applications include automobile battery cases, water meter cases, toothbrushes, and cassette tape cases

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-92HR-SAN-Resin.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D955
Melt Flow	3.4 g/10 min	3.4 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 Â°C	@Load 11.0 lb, Temperature 392 Â°F	
	32 g/10 min	32 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 220 Â°C	@Load 22.0 lb, Temperature 428 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	124	124	ASTM D785
Tensile Strength, Yield	77.0 MPa	11200 psi	50 mm/min; ASTM D638
Elongation at Break	6.0 %	6.0 %	50 mm/min; ASTM D638
Modulus of Elasticity	3.21 GPa	466 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	128 MPa	18600 psi	50 mm/min; ASTM D790
Flexural Modulus	3.71 GPa	538 ksi	15 mm/min; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	91.0 Â°C	196 Â°F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
Vicat Softening Point	107 Â°C	225 Â°F	1000 g; ASTM D1525
Flammability, UL94	HB	HB	1/8 in
	HB	HB	1/16 in

Electrical Properties	Metric	English	Comments
Arc Resistance	120 - 180 sec	120 - 180 sec	UL Rating PLC 5 (120-180 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	>= 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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