

LG Chemical 81HF SAN Resin

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

Material Notes:

High flow, Heat and chemical resistance, Good mechanical properties, Excellent processability, Superior transparency, Good dimensional stability, Applications include food receptacles, disposable lighters, and bicycle reflectors

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-81HF-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	6.2 g/10 min	6.2 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 Â°C	@Load 11.0 lb, Temperature 392 Â°F	
	60 g/10 min	60 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	123	123	ASTM D785
Tensile Strength, Yield	71.0 MPa	10300 psi	50 mm/min; ASTM D638
Elongation at Break	6.0 %	6.0 %	50 mm/min; ASTM D638
Modulus of Elasticity	3.08 GPa	447 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	113 MPa	16400 psi	50 mm/min; ASTM D790
Flexural Modulus	3.66 GPa	531 ksi	15 mm/min; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	89.0 Â°C	192 Â°F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
Vicat Softening Point	105 Â°C	221 Â°F	1000 g; ASTM D1525
Flammability, UL94	HB	HB	1/16 in
	HB	HB	1/8 in
	25.0 mm/min	0.984 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	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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