

LG Chemical 20HRI GPPS

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

Material Notes:

Heat resistance, Superior transparency and processability, good appearance, non-toxicity (Conforming to FDA CFR 177.1640), Excellent electrical properties, Heat resistance and chemical resistance, Superior extrusion processing suitable for OPS, PSP and synthetic wood, Applications include radio housing, name plates for electrical equipment, and cosmetic cases

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-20HRI-GPPS.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	ASTM D955
Melt Flow	5.5 g/10 min @Load 5.00 kg, Temperature 200 Â°C	5.5 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	46.2 MPa	6700 psi	50 mm/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	50 mm/min; ASTM D638
Flexural Yield Strength	86.4 MPa	12500 psi	15 mm/min; ASTM D790
Flexural Modulus	3.30 GPa	479 ksi	15 mm/min; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C @Thickness 12.7 mm	185 Â°F @Thickness 0.500 in	Unannealed; ASTM D648
Vicat Softening Point	103 Â°C	217 Â°F	1000 g; ASTM D1525
Flammability, UL94	HB	HB	1/8 in
	HB	HB	1/16 in
Flame Spread	27.0 mm/min @Thickness 3.17 mm	1.06 in/min @Thickness 0.125 in	FH3

Electrical Properties	Metric	English	Comments
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Arc Resistance Electrical Properties	120 - 180 sec Metric	120 - 180 sec English	UL Rating PLC 5 (120-180 sec) Comments
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 - 25.4 mm/min	0.394 - 1.00 in/min	UL Rating PLC 1 (10-25.4 mm/min)

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