

LG Chemical 15NFI GPPS

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

Material Notes:

High flow, 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 transparent receptacles for medicines and food, toys, goods, audio tapes, stationery, fans, food receptacles, disposable cups, PSP sheet, and films

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-15NFI-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	9.0 g/10 min @Load 5.00 kg, Temperature 200 °C	9.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength, Yield	44.2 MPa	6410 psi	50 mm/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	50 mm/min; ASTM D638
Flexural Yield Strength	83.5 MPa	12100 psi	15 mm/min; ASTM D790
Flexural Modulus	3.10 GPa	450 ksi	15 mm/min; ASTM D790

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	98.0 °C	208 °F	1000 g; ASTM D1525
Flammability, UL94	HB	HB	1/8 in
	HB	HB	1/16 in
Flame Spread	28.0 mm/min @Thickness 3.17 mm	1.10 in/min @Thickness 0.125 in	FH3

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

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 - 25.4 mm/min	0.394 - 1.00 in/min	UL Rating PLC 1 (10-25.4 mm/min)

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