

LG Chemical 401 AF Flame Retardant HIPS

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Flame Retardant

Material Notes:

NON-DECA, Flame retardant, Safety standards: listed with UL CSA, and classified according to IEC 707, Meet requirements for flammability, mechanical and electrical properties, uses non-bromide as flame retardant agent and has well-balanced mechanical properties, Applications include televisions, VTR, monitors, computers and other electrical electronic parts requiring flame retard

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-401-AF-Flame-Retardant-HIPS.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	ASTM D955
Melt Flow	12 g/10 min @Load 5.00 kg, Temperature 200 Â°C	12 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	90	90	ASTM D785
Tensile Strength, Yield	24.6 MPa	3570 psi	50 mm/min; ASTM D638
Elongation at Break	50 %	50 %	50 mm/min; ASTM D638
Flexural Yield Strength	44.2 MPa	6410 psi	15 mm/min; ASTM D790
Flexural Modulus	2.20 GPa	319 ksi	15 mm/min; ASTM D790
Izod Impact, Notched	0.640 J/cm @Thickness 6.35 mm	1.20 ft-lb/in @Thickness 0.250 in	ASTM D256
	0.880 J/cm @Thickness 3.17 mm	1.65 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	75.0 Â°C @Thickness 12.7 mm	167 Â°F @Thickness 0.500 in	Unannealed; ASTM D648
Vicat Softening Point	93.0 Â°C	199 Â°F	1000 g; ASTM D1525
Flammability, UL94	V-0	V-0	1/8 in
	V-0	V-0	1/16 in

Electrical Properties	Metric	English	Comments
Arc Resistance	<= 60 sec	<= 60 sec	UL Rating PLC 7 (<60 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	60 - 120 arcs	60 - 120 arcs	UL Rating PLC 1 (60-120 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)

Descriptive Properties	Value	Comments
IEC 707 Flammability	FVO mm/min.	1/16 in

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