

## LG Chemical 40 AF Flame Retardant HIPS

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

### Material Notes:

High impact, Safety standards: listed with UL CSA, and classified according to IEC 707, Meet requirements for flammability, mechanical and electrical 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-40-AF-Flame-Retardant-HIPS.php](http://www.lookpolymers.com/polymer_LG-Chemical-40-AF-Flame-Retardant-HIPS.php)

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in <sup>3</sup>	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 Â°C	9.0 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	95	95	ASTM D785
Tensile Strength, Yield	26.5 MPa	3840 psi	50 mm/min; ASTM D638
Elongation at Break	60 %	60 %	50 mm/min; ASTM D638
Flexural Yield Strength	41.2 MPa	5980 psi	15 mm/min; ASTM D790
Flexural Modulus	2.20 GPa	319 ksi	15 mm/min; ASTM D790
Izod Impact, Notched	0.780 J/cm @Thickness 6.35 mm	1.46 ft-lb/in @Thickness 0.250 in	ASTM D256
	1.13 J/cm @Thickness 3.17 mm	2.12 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	77.0 Â°C @Thickness 12.7 mm	171 Â°F @Thickness 0.500 in	Unannealed; ASTM D648
Vicat Softening Point	95.0 Â°C	203 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 - 120 sec	60 - 120 sec	UL Rating PLC 6 (60-120 sec)
Comparative Tracking Index	250 - 400 V	250 - 400 V	UL Rating PLC 2
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)

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

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China