

## LG Chemical 60HR HIPS

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

### Material Notes:

Heat resistance, Balanced mechanical properties, Good surface appearance with high gloss, Conforming to FDA CFR 177.1640, Excellent processability, Applications include TV sets, tape recorders, vacuum cleaners, washing machines, and air conditioners

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-60HR-HIPS.php](http://www.lookpolymers.com/polymer_LG-Chemical-60HR-HIPS.php)

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 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	4.0 g/10 min @Load 5.00 kg, Temperature 200 Â°C	4.0 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	99	99	ASTM D785
Tensile Strength, Yield	28.5 MPa	4130 psi	50 mm/min; ASTM D638
Elongation at Break	60 %	60 %	50 mm/min; ASTM D638
Flexural Yield Strength	46.2 MPa	6700 psi	15 mm/min; ASTM D790
Flexural Modulus	2.10 GPa	305 ksi	15 mm/min; ASTM D790
Izod Impact, Notched	0.830 J/cm @Thickness 6.35 mm	1.55 ft-lb/in @Thickness 0.250 in	ASTM D256
	1.18 J/cm @Thickness 3.17 mm	2.21 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	81.0 Â°C @Thickness 12.7 mm	178 Â°F @Thickness 0.500 in	Unannealed; ASTM D648
Vicat Softening Point	101 Â°C	214 Â°F	1000 g; ASTM D1525
Flammability, UL94	HB	HB	1/8 in
	HB	HB	1/16 in
	28.0 mm/min	1.10 in/min	

Flame Spread Thermal Properties	Metric @ Thickness 3.17 mm	English @ Thickness 0.125 in	FH3 Comments
<b>Electrical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Arc Resistance	120 - 180 sec	120 - 180 sec	UL Rating PLC 5 (120-180 sec)
Comparative Tracking Index	>= 600 V	>= 600 V	UL Rating PLC 0 (>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	25.4 - 80.0 mm/min	1.00 - 3.15 in/min	UL Rating PLC 2 (25.4-80 mm/min)

## Contact Songhan Plastic Technology Co.,Ltd.

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