

## LG Chemical 65IH HIPS

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

### Material Notes:

High impact, Extrusion, Balanced mechanical properties, Good surface appearance with high gloss, Conforming to FDA CFR 177.1640, Excellent processability, Applications include refrigerator food trays, and disposable food containers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-65IH-HIPS.php](http://www.lookpolymers.com/polymer_LG-Chemical-65IH-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	3.0 g/10 min @Load 5.00 kg, Temperature 200 Â°C	3.0 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	97	97	ASTM D785
Tensile Strength, Yield	29.5 MPa	4280 psi	50 mm/min; ASTM D638
Elongation at Break	60 %	60 %	50 mm/min; ASTM D638
Flexural Yield Strength	47.1 MPa	6830 psi	15 mm/min; ASTM D790
Flexural Modulus	2.10 GPa	305 ksi	15 mm/min; ASTM D790
Izod Impact, Notched	0.930 J/cm @Thickness 6.35 mm	1.74 ft-lb/in @Thickness 0.250 in	ASTM D256
	1.37 J/cm @Thickness 3.17 mm	2.57 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	78.0 Â°C @Thickness 12.7 mm	172 Â°F @Thickness 0.500 in	Unannealed; ASTM D648
Vicat Softening Point	99.0 Â°C	210 Â°F	1000 g; ASTM D1525
Flammability, UL94	HB	HB	1/16 in
	HB	HB	1/8 in
	30.0 mm/min	1.18 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>
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 mm/min	<= 0.394 in/min	UL Rating PLC 0 (0-10 mm/min)

## 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