

Samsung Cheil Industries Infino[®] LB-3150GW PC, 15% Glass Filled High Impact

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 20% Glass Filled

Material Notes:

High-impact resistant PC/GF that can be used for middle mold frame of LCD TV. Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-LB-3150GW-PC-15-Glass-Filled-High-Impact.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 - 0.0040 cm/cm @Thickness 3.20 mm	0.0030 - 0.0040 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	26 g/10 min @Load 10.0 kg, Temperature 250 Å°C	26 g/10 min @Load 22.0 lb, Temperature 482 Å°F	ASTM D1238
Ash	15 %	15 %	ASTM D5630

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	68.6 MPa	9950 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	68.6 MPa	9960 psi	5 mm/min; ASTM D638
Elongation at Break	4.3 %	4.3 %	5 mm/min; ASTM D638
Tensile Modulus	3.82 GPa	555 ksi	5 mm/min; ASTM D638
Flexural Strength	127 MPa	18400 psi	2.8 mm/min; ASTM D790
Flexural Modulus	4.31 GPa	626 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	0.696 J/cm @Thickness 6.35 mm	1.30 ft-lb/in @Thickness 0.250 in	ASTM D256
	0.716 J/cm @Thickness 3.17 mm	1.34 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	142 Å°C @Thickness 6.40 mm	288 Å°F @Thickness 0.252 in	ASTM D648
	137 Å°C	279 Å°F	

Thermal Properties <small>Deflection Temperature at 1.8 MPa (1.8 MPa)</small>	Metric <small>@ Thickness 6.40 mm</small>	English <small>@ Thickness 0.252 in</small>	ASTM D648 Comments
Vicat Softening Point	143 Â°C	289 Â°F	B/50; ISO R306
	144 Â°C	291 Â°F	B/120; ISO R306
Flammability, UL94	V-2 <small>@Thickness 3.00 mm</small>	V-2 <small>@Thickness 0.118 in</small>	

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