

Samsung Cheil Industries Infino[®] CF-3104HF PC, 10% Glass Filled High Impact

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 10% Glass Filled , Polycarbonate, Impact Modified

Material Notes:

High-impact PC/GR material for the exterior of slim mobile phone. Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-CF-3104HF-PC-10-Glass-Filled-High-Impact.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|--|--|------------|
| Specific Gravity | 1.25 g/cc | 1.25 g/cc | ASTM D792 |
| Water Absorption | 0.30 % @Temperature 23.0 Â°C | 0.30 % @Temperature 73.4 Â°F | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0030 - 0.0050 cm/cm @Thickness 3.20 mm | 0.0030 - 0.0050 in/in @Thickness 0.126 in | ASTM D955 |
| Linear Mold Shrinkage, Transverse | 0.0030 - 0.0050 cm/cm @Thickness 3.20 mm | 0.0030 - 0.0050 in/in @Thickness 0.126 in | ASTM D955 |
| Melt Flow | 23 g/10 min @Load 10.0 kg, Temperature 250 Â°C | 23 g/10 min @Load 22.0 lb, Temperature 482 Â°F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---------------------------------|--------------------------------------|-----------------------|
| Hardness, Rockwell R | 116 | 116 | ASTM D785 |
| Tensile Strength, Yield | 58.8 MPa | 8530 psi | 5 mm/min; ASTM D638 |
| Flexural Strength | 93.2 MPa | 13500 psi | 2.8 mm/min; ASTM D790 |
| Flexural Modulus | 2.94 GPa | 427 ksi | 2.8 mm/min; ASTM D790 |
| Izod Impact, Notched | 2.75 J/cm @Thickness 3.17 mm | 5.14 ft-lb/in @Thickness 0.125 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|--|-------------------------------|--------------------------------|----------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 141 Â°C @Thickness 6.40 mm | 286 Â°F @Thickness 0.252 in | ASTM D648 |
| Vicat Softening Point | 137 Â°C | 279 Â°F | B/50; ISO R306 |
| | 2.00 | 2.00 | |

| Flammability UL 94 Thermal Properties | Metric @Thickness 3.20 mm | English @Thickness 0.126 in | Comments |
|--|------------------------------|--------------------------------|----------|
| | V-2 | V-2 | |
| | @Thickness 0.800 mm | @Thickness 0.0315 in | |

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