

## Samsung Cheil Industries Infino® GW-3130 PC, 10% Glass Filled Recycled

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

### Material Notes:

Eco-friendly Post-Consumer recycled content. Information provided by Samsung Cheil Industries.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Samsung-Cheil-Industries-Infino-GW-3130-PC-10-Glass-Filled-Recycled.php](http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-GW-3130-PC-10-Glass-Filled-Recycled.php)

| Physical Properties               | Metric                                                | English                                               | Comments   |
|-----------------------------------|-------------------------------------------------------|-------------------------------------------------------|------------|
| Specific Gravity                  | 1.24 g/cc                                             | 1.24 g/cc                                             | ASTM D792  |
| Water Absorption                  | 0.050 %<br>@Temperature 23.0<br>Â°C                   | 0.050 %<br>@Temperature 73.4 Â°F                      | ASTM D570  |
| Linear Mold Shrinkage, Flow       | 0.0030 - 0.0040 cm/cm<br>@Thickness 3.20 mm           | 0.0030 - 0.0040 in/in<br>@Thickness 0.126 in          | ASTM D955  |
| Linear Mold Shrinkage, Transverse | 0.0040 - 0.0050 cm/cm<br>@Thickness 3.20 mm           | 0.0040 - 0.0050 in/in<br>@Thickness 0.126 in          | ASTM D955  |
| Melt Flow                         | 9.0 g/10 min<br>@Load 1.20 kg,<br>Temperature 300 Â°C | 9.0 g/10 min<br>@Load 2.65 lb,<br>Temperature 572 Â°F | ASTM D1238 |
|                                   | 17 g/10 min<br>@Load 10.0 kg,<br>Temperature 250 Â°C  | 17 g/10 min<br>@Load 22.0 lb,<br>Temperature 482 Â°F  | ASTM D1238 |
| Ash                               | 10 %                                                  | 10 %                                                  | ASTM D5630 |

| Mechanical Properties     | Metric    | English       | Comments              |
|---------------------------|-----------|---------------|-----------------------|
| Hardness, Rockwell R      | 110       | 110           | ASTM D785             |
| Tensile Strength at Break | 35.3 MPa  | 5120 psi      | 5 mm/min; ASTM D638   |
| Tensile Strength, Yield   | 51.0 MPa  | 7400 psi      | 5 mm/min; ASTM D638   |
| Elongation at Break       | 13 %      | 13 %          | 5 mm/min; ASTM D638   |
| Tensile Modulus           | 3.24 GPa  | 469 ksi       | 5 mm/min; ASTM D638   |
| Flexural Strength         | 88.3 MPa  | 12800 psi     | 2.8 mm/min; ASTM D790 |
| Flexural Modulus          | 3.14 GPa  | 455 ksi       | 2.8 mm/min; ASTM D790 |
| Izod Impact, Notched      | 1.77 J/cm | 3.31 ft-lb/in | ASTM D256             |

| Mechanical Properties | @Thickness 6.35 mm<br>Metric | @Thickness 0.250 in<br>English | Comments  |
|-----------------------|------------------------------|--------------------------------|-----------|
|                       | 2.45 J/cm                    | 4.59 ft-lb/in                  | ASTM D256 |
|                       | @Thickness 3.17 mm           | @Thickness 0.125 in            |           |

| Thermal Properties                             | Metric                        | English                         | Comments       |
|------------------------------------------------|-------------------------------|---------------------------------|----------------|
| Deflection Temperature at 0.46 MPa<br>(66 psi) | 142 Â°C                       | 288 Â°F                         | ASTM D648      |
|                                                | @Thickness 6.40 mm            | @Thickness 0.252 in             |                |
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 137 Â°C                       | 279 Â°F                         | ASTM D648      |
|                                                | @Thickness 6.40 mm            | @Thickness 0.252 in             |                |
| Vicat Softening Point                          | 145 Â°C                       | 293 Â°F                         | B/50; ISO R306 |
| Flammability, UL94                             | HB                            | HB                              |                |
|                                                | @Thickness 0.800 -<br>3.20 mm | @Thickness 0.0315 -<br>0.126 in |                |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
| Dielectric Constant   | 2.8    | 2.8     | STM D150 |

## Contact Songhan Plastic Technology Co.,Ltd.

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