

## Samsung Cheil Industries Infino<sup>®</sup> HA-1011 PC/ABS, Unreinforced

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

### Material Notes:

Information provided by Samsung Cheil Industries.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Samsung-Cheil-Industries-Infino-HA-1011-PCABS-Unreinforced.php](http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-HA-1011-PCABS-Unreinforced.php)

| Physical Properties         | Metric                                | English                               | Comments   |
|-----------------------------|---------------------------------------|---------------------------------------|------------|
| Specific Gravity            | 1.13 g/cc                             | 1.13 g/cc                             | ASTM D792  |
| Water Absorption            | 0.15 %                                | 0.15 %                                | ASTM D570  |
|                             | @Temperature 23.0<br>Â°C              | @Temperature 73.4 Â°F                 |            |
| Linear Mold Shrinkage, Flow | 0.0020 - 0.0040 cm/cm                 | 0.0020 - 0.0040 in/in                 | ASTM D955  |
|                             | @Thickness 3.20 mm                    | @Thickness 0.126 in                   |            |
| Melt Flow                   | 49 g/10 min                           | 49 g/10 min                           | ASTM D1238 |
|                             | @Load 10.0 kg,<br>Temperature 250 Â°C | @Load 22.0 lb,<br>Temperature 482 Â°F |            |

| Mechanical Properties     | Metric             | English             | Comments              |
|---------------------------|--------------------|---------------------|-----------------------|
| Hardness, Rockwell R      | 110                | 110                 | ASTM D785             |
| Tensile Strength at Break | 58.8 MPa           | 8530 psi            | 50 mm/min; ASTM D638  |
| Tensile Strength, Yield   | 46.1 MPa           | 6680 psi            | 5 mm/min; ASTM D638   |
| Elongation at Break       | 115 %              | 115 %               | 50 mm/min; ASTM D638  |
| Tensile Modulus           | 1.77 GPa           | 256 ksi             | 50 mm/min; ASTM D638  |
| Flexural Strength         | 68.6 MPa           | 9950 psi            | 2.8 mm/min; ASTM D790 |
| Flexural Modulus          | 1.86 GPa           | 270 ksi             | 2.8 mm/min; ASTM D790 |
| Izod Impact, Notched      | 3.92 J/cm          | 7.35 ft-lb/in       | ASTM D256             |
|                           | @Thickness 6.35 mm | @Thickness 0.250 in |                       |
|                           | 7.06 J/cm          | 13.2 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) | 127 Â°C | 261 Â°F | ASTM D648 |

| Thermal Properties                             | @Thickness 6.40 mm<br>Metric | @Thickness 0.252 in<br>English | Comments        |
|------------------------------------------------|------------------------------|--------------------------------|-----------------|
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 106 Å°C                      | 223 Å°F                        | ASTM D648       |
|                                                | @Thickness 6.40 mm           | @Thickness 0.252 in            |                 |
| Vicat Softening Point                          | 117 Å°C                      | 243 Å°F                        | B/50; ISO R306  |
|                                                | 120 Å°C                      | 248 Å°F                        | B/120; ISO R306 |

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