

## Samsung Cheil Industries Infino® AE-2130 PC/PET, Unreinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/PET Polyester Blend , Polyester, TP , Polyethylene Terephthalate (PET)

### Material Notes:

Information provided by Samsung Cheil Industries.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Samsung-Cheil-Industries-Infino-AE-2130-PCPET-Unreinforced.php](http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-AE-2130-PCPET-Unreinforced.php)

| Physical Properties               | Metric                                | English                               | Comments   |
|-----------------------------------|---------------------------------------|---------------------------------------|------------|
| Specific Gravity                  | 1.23 g/cc                             | 1.23 g/cc                             | ASTM D792  |
| Linear Mold Shrinkage, Flow       | 0.0030 - 0.0050 cm/cm                 | 0.0030 - 0.0050 in/in                 | ASTM D955  |
|                                   | @Thickness 3.20 mm                    | @Thickness 0.126 in                   |            |
| Linear Mold Shrinkage, Transverse | 0.0040 - 0.0060 cm/cm                 | 0.0040 - 0.0060 in/in                 | ASTM D955  |
|                                   | @Thickness 3.20 mm                    | @Thickness 0.126 in                   |            |
| Melt Flow                         | 21 g/10 min                           | 21 g/10 min                           | ASTM D1238 |
|                                   | @Load 5.00 kg,<br>Temperature 260 Â°C | @Load 11.0 lb,<br>Temperature 500 Â°F |            |

| Mechanical Properties   | Metric             | English             | Comments              |
|-------------------------|--------------------|---------------------|-----------------------|
| Hardness, Rockwell R    | 111                | 111                 | ASTM D785             |
| Tensile Strength, Yield | 56.9 MPa           | 8250 psi            | 50 mm/min; ASTM D638  |
| Flexural Strength       | 81.4 MPa           | 11800 psi           | 2.8 mm/min; ASTM D790 |
| Flexural Modulus        | 2.45 GPa           | 356 ksi             | 2.8 mm/min; ASTM D790 |
| Izod Impact, Notched    | 1.77 J/cm          | 3.31 ft-lb/in       | ASTM D256             |
|                         | @Thickness 6.35 mm | @Thickness 0.250 in |                       |
|                         | 5.49 J/cm          | 10.3 ft-lb/in       | ASTM D256             |
|                         | @Thickness 3.17 mm | @Thickness 0.125 in |                       |

| Thermal Properties                             | Metric             | English             | Comments       |
|------------------------------------------------|--------------------|---------------------|----------------|
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 108 Â°C            | 226 Â°F             | ASTM D648      |
|                                                | @Thickness 6.40 mm | @Thickness 0.252 in |                |
| Vicat Softening Point                          | 135 Â°C            | 275 Â°F             | B/50; ISO R306 |

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