

## Samsung Cheil Industries Starex® VE-1801 HIPS, Unreinforced FR

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

### Material Notes:

Information provided by Samsung Cheil Industries.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Samsung-Cheil-Industries-Starex-VE-1801-HIPS-Unreinforced-FR.php](http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Starex-VE-1801-HIPS-Unreinforced-FR.php)

| Physical Properties               | Metric                                              | English                                             | Comments   |
|-----------------------------------|-----------------------------------------------------|-----------------------------------------------------|------------|
| Specific Gravity                  | 1.23 g/cc                                           | 1.23 g/cc                                           | ASTM D792  |
| Linear Mold Shrinkage, Flow       | 0.0020 - 0.0060 cm/cm<br>@Thickness 3.20 mm         | 0.0020 - 0.0060 in/in<br>@Thickness 0.126 in        | ASTM D955  |
| Linear Mold Shrinkage, Transverse | 0.0020 - 0.0060 cm/cm<br>@Thickness 3.20 mm         | 0.0020 - 0.0060 in/in<br>@Thickness 0.126 in        | ASTM D955  |
| Melt Flow                         | 12 g/10 min<br>@Load 5.00 kg,<br>Temperature 200 °C | 12 g/10 min<br>@Load 11.0 lb,<br>Temperature 392 °F | ASTM D1238 |

| Mechanical Properties   | Metric                           | English                              | Comments              |
|-------------------------|----------------------------------|--------------------------------------|-----------------------|
| Tensile Strength, Yield | 22.6 MPa                         | 3270 psi                             | 20 mm/min; ASTM D638  |
| Flexural Strength       | 29.4 MPa                         | 4260 psi                             | 2.8 mm/min; ASTM D638 |
| Flexural Modulus        | 1.77 GPa                         | 256 ksi                              | 2.8 mm/min; ASTM D638 |
| Izod Impact, Notched    | 0.981 J/cm<br>@Thickness 3.17 mm | 1.84 ft-lb/in<br>@Thickness 0.125 in | ASTM D256             |

| Thermal Properties                          | Metric                        | English                       | Comments       |
|---------------------------------------------|-------------------------------|-------------------------------|----------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 71.0 °C<br>@Thickness 6.40 mm | 160 °F<br>@Thickness 0.252 in | ASTM D648      |
| Vicat Softening Point                       | 85.0 °C                       | 185 °F                        | B/50; ISO R306 |
| Flammability, UL94                          | V-0<br>@Thickness 1.50 mm     | V-0<br>@Thickness 0.0591 in   |                |

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