

## Samsung Cheil Industries Starex® SV-0167EX Extrusion Grade ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Extruded

### Material Notes:

Information provided by Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Samsung-Cheil-Industries-Starex-SV-0167EX-Extrusion-Grade-ABS.php](http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Starex-SV-0167EX-Extrusion-Grade-ABS.php)

| Physical Properties   | Metric                                                | English                                               | Comments  |
|-----------------------|-------------------------------------------------------|-------------------------------------------------------|-----------|
| Density               | 1.04 g/cc                                             | 0.0376 lb/in <sup>3</sup>                             | ASTM D792 |
| Water Absorption      | 0.30 %                                                | 0.30 %                                                | ASTM D570 |
| Linear Mold Shrinkage | 0.0030 - 0.0060 cm/cm                                 | 0.0030 - 0.0060 in/in                                 | ASTM D955 |
| Melt Flow             | 4.0 g/10 min<br>@Load 10.0 kg,<br>Temperature 220 Â°C | 4.0 g/10 min<br>@Load 22.0 lb,<br>Temperature 428 Â°F |           |

| Mechanical Properties   | Metric                          | English                              | Comments  |
|-------------------------|---------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R    | 99                              | 99                                   | ASTM D785 |
| Tensile Strength, Yield | 40.0 MPa<br>@Thickness 3.17 mm  | 5800 psi<br>@Thickness 0.125 in      | ASTM D638 |
| Flexural Strength       | 57.9 MPa<br>@Thickness 3.17 mm  | 8400 psi<br>@Thickness 0.125 in      | ASTM D790 |
| Flexural Modulus        | 1.93 GPa<br>@Thickness 3.17 mm  | 280 ksi<br>@Thickness 0.125 in       | ASTM D790 |
| Izod Impact, Notched    | 4.81 J/cm<br>@Thickness 3.17 mm | 9.00 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |

| Thermal Properties                          | Metric                         | English                        | Comments              |
|---------------------------------------------|--------------------------------|--------------------------------|-----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 90.0 Â°C<br>@Thickness 6.35 mm | 194 Â°F<br>@Thickness 0.250 in | Unannealed; ASTM D648 |
| Vicat Softening Point                       | 99.0 Â°C                       | 210 Â°F                        | Unannealed; ISO R 306 |
| Flammability, UL94                          | HB<br>@Thickness 1.50 mm       | HB<br>@Thickness 0.0591 in     |                       |
|                                             | HB                             | HB                             |                       |

| Thermal Properties | Metric<br>@ Thickness 3.00 mm | English<br>@ Thickness 0.118 in | Comments |
|--------------------|-------------------------------|---------------------------------|----------|
|--------------------|-------------------------------|---------------------------------|----------|

| Processing Properties     | Metric           | English           | Comments |
|---------------------------|------------------|-------------------|----------|
| Rear Barrel Temperature   | 200 - 220 Â°C    | 392 - 428 Â°F     |          |
| Middle Barrel Temperature | 220 - 240 Â°C    | 428 - 464 Â°F     |          |
| Front Barrel Temperature  | 230 - 250 Â°C    | 446 - 482 Â°F     |          |
| Nozzle Temperature        | 230 - 250 Â°C    | 446 - 482 Â°F     |          |
| Melt Temperature          | 250 - 270 Â°C    | 482 - 518 Â°F     |          |
| Mold Temperature          | 50.0 - 80.0 Â°C  | 122 - 176 Â°F     |          |
| Drying Temperature        | 80.0 - 85.0 Â°C  | 176 - 185 Â°F     |          |
| Dry Time                  | 2 - 4 hour       | 2 - 4 hour        |          |
| Injection Pressure        | 68.9 - 82.7 MPa  | 10000 - 12000 psi |          |
| Back Pressure             | 0.689 - 1.38 MPa | 100 - 200 psi     |          |
| Shot Size                 | 50 - 80 %        | 50 - 80 %         |          |
| Screw Speed               | 30 - 60 rpm      | 30 - 60 rpm       |          |

| Descriptive Properties | Value            | Comments |
|------------------------|------------------|----------|
| Processing Fill Speed  | Slow to Moderate |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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