

## Samsung Cheil Industries Starex® BM-0320 J ABS, Unreinforced

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

### Material Notes:

Heat resistant Information provided by Samsung Cheil Industries.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Samsung-Cheil-Industries-Starex-BM-0320-J-ABS-Unreinforced.php](http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Starex-BM-0320-J-ABS-Unreinforced.php)

| Physical Properties               | Metric                                                | English                                               | Comments   |
|-----------------------------------|-------------------------------------------------------|-------------------------------------------------------|------------|
| Specific Gravity                  | 1.04 g/cc                                             | 1.04 g/cc                                             | ASTM D792  |
| Water Absorption                  | 0.30 %<br>@Temperature 23.0<br>Â°C                    | 0.30 %<br>@Temperature 73.4 Â°F                       | ASTM D570  |
| Linear Mold Shrinkage, Flow       | 0.0050 cm/cm<br>@Thickness 3.20 mm                    | 0.0050 in/in<br>@Thickness 0.126 in                   | ASTM D955  |
| Linear Mold Shrinkage, Transverse | 0.0060 cm/cm                                          | 0.0060 in/in                                          |            |
| 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 | ASTM D1238 |

| Mechanical Properties   | Metric                          | English                              | Comments              |
|-------------------------|---------------------------------|--------------------------------------|-----------------------|
| Hardness, Rockwell R    | 104                             | 104                                  | ASTM D785             |
| Tensile Strength, Yield | 42.2 MPa                        | 6120 psi                             | 50 mm/min; ASTM D638  |
| Elongation at Break     | 25 %                            | 25 %                                 | 50 mm/min; ASTM D638  |
| Flexural Strength       | 57.9 MPa                        | 8400 psi                             | 2.8 mm/min; ASTM D790 |
| Flexural Modulus        | 1.93 GPa                        | 280 ksi                              | 2.8 mm/min; ASTM D790 |
| Izod Impact, Notched    | 2.45 J/cm<br>@Thickness 6.35 mm | 4.59 ft-lb/in<br>@Thickness 0.250 in | ASTM D256             |

| Thermal Properties                             | Metric                         | English                        | Comments       |
|------------------------------------------------|--------------------------------|--------------------------------|----------------|
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 93.0 Â°C<br>@Thickness 6.40 mm | 199 Â°F<br>@Thickness 0.252 in | ASTM D648      |
| Vicat Softening Point                          | 104 Â°C                        | 219 Â°F                        | B/50; ISO R306 |

## Contact Songhan Plastic Technology Co.,Ltd.

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