

## Samsung Cheil Industries Starex<sup>®</sup> WR-9300HF ASA, Unreinforced Heat Resistant

Category : Polymer , Thermoplastic , ASA Polymer , Acrylonitrile/Styrene/Acrylate (ASA), Unreinforced, Molded

### Material Notes:

Information provided by Samsung Cheil Industries.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Samsung-Cheil-Industries-Starex-WR-9300HF-ASA-Unreinforced-Heat-Resistant.php](http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Starex-WR-9300HF-ASA-Unreinforced-Heat-Resistant.php)

| Physical Properties | Metric   | English  | Comments   |
|---------------------|--|--|------------|
| Specific Gravity    | 1.07 g/cc  | 1.07 g/cc  | ASTM D792  |
| Melt Flow           | 15 g/10 min<br>@Load 10.0 kg,<br>Temperature 220 Å°C | 15 g/10 min<br>@Load 22.0 lb,<br>Temperature 428 Å°F | ASTM D1238 |

| Mechanical Properties   | Metric                          | English                              | Comments              |
|-------------------------|---------------------------------|--------------------------------------|-----------------------|
| Hardness, Rockwell R    | 107                             | 107                                  | ASTM D785             |
| Tensile Strength, Yield | 45.1 MPa                        | 6540 psi                             | 5 mm/min; ASTM D638   |
| Elongation at Break     | 88 %                            | 88 %                                 | 5 mm/min; ASTM D638   |
| Flexural Strength       | 68.6 MPa                        | 9950 psi                             | 2.8 mm/min; ASTM D638 |
| Flexural Modulus        | 2.26 GPa                        | 327 ksi                              | 2.8 mm/min; ASTM D638 |
| Izod Impact, Notched    | 1.18 J/cm<br>@Thickness 3.17 mm | 2.20 ft-lb/in<br>@Thickness 0.125 in | ASTM D256             |

| Thermal Properties                          | Metric                         | English                        | Comments       |
|---|--------------------------------|--------------------------------|----------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 88.0 Å°C<br>@Thickness 6.40 mm | 190 Å°F<br>@Thickness 0.252 in | ASTM D648      |
| Vicat Softening Point                       | 99.0 Å°C                       | 210 Å°F                        | B/50; ISO R306 |
| Flammability, UL94                          | HB<br>@Thickness 1.50 mm       | HB<br>@Thickness 0.0591 in     |                |

| Optical Properties | Metric                     | English                     | Comments   |
|--------------------|----------------------------|-----------------------------|------------|
| Yellow Index       | 25 %<br>@Thickness 3.20 mm | 25 %<br>@Thickness 0.126 in | ASTM D1925 |

## **Contact Songhan Plastic Technology Co.,Ltd.**

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