

Samsung Cheil Industries Starex[®] SD-0150UF ABS, Unreinforced

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 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-SD-0150UF-ABS-Unreinforced.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|------------|
| Specific Gravity | 1.04 g/cc | 1.04 g/cc | ASTM D792 |
| Melt Flow | 11 g/10 min @Load 10.0 kg, Temperature 220 Å°C | 11 g/10 min @Load 22.0 lb, Temperature 428 Å°F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|---------------------------------|--------------------------------------|-----------------------|
| Hardness, Rockwell R | 103 | 103 | ASTM D785 |
| Tensile Strength at Break | 31.4 MPa | 4550 psi | 5 mm/min; ASTM D638 |
| Tensile Strength, Yield | 39.2 MPa | 5690 psi | 5 mm/min; ASTM D638 |
| Elongation at Break | 16 % | 16 % | 5 mm/min; ASTM D638 |
| Tensile Modulus | 1.96 GPa | 284 ksi | 5 mm/min; ASTM D638 |
| Flexural Strength | 58.8 MPa | 8530 psi | 2.8 mm/min; ASTM D790 |
| Flexural Modulus | 1.96 GPa | 284 ksi | 2.8 mm/min; ASTM D790 |
| Izod Impact, Notched | 2.84 J/cm @Thickness 6.35 mm | 5.33 ft-lb/in @Thickness 0.250 in | ASTM D256 |
| | 3.53 J/cm @Thickness 3.17 mm | 6.61 ft-lb/in @Thickness 0.125 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------------------------------|--------------------------------|-----------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 95.0 Å°C @Thickness 6.40 mm | 203 Å°F @Thickness 0.252 in | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 84.0 Å°C @Thickness 6.40 mm | 183 Å°F @Thickness 0.252 in | ASTM D648 |
| Vicat Softening Point | 96.0 Å°C | 205 Å°F | B/50; ISO R306 |
| | | | B/120; ISO R306 |

| Thermal Properties | 99.0 A °C Metric | 210 A °F English | Comments |
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