

Polykemi AB SCANTEC PC S60R GF10 V0 Polycarbonate, Glass-Fiber Reinforced, Flame Retardant

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 10% Glass Filled , Polycarbonate, Glass Fiber Filled, Flame Retardant

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-SCANTEC-PC-S60R-GF10-V0-Polycarbonate-Glass-Fiber-Reinforced-Flame-Retardant.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|---------------------------|-----------------------|
| Density | 1.30 g/cc | 0.0470 lb/in ³ | ISO 1183 |
| Filler Content | 10 % | 10 % | ±2%; Polykemi |
| Linear Mold Shrinkage | 0.0020 cm/cm | 0.0020 in/in | With Flow; ISO 2577 |
| | 0.0060 cm/cm | 0.0060 in/in | Across Flow; ISO 2577 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-------------------------|----------------------------|----------|
| Tensile Strength at Break | <= 45.0 MPa | <= 6530 psi | ISO/R527 |
| Elongation at Break | 7.0 % | 7.0 % | ISO/R527 |
| Flexural Strength | <= 120 MPa | <= 17400 psi | ISO 178 |
| Flexural Modulus | 3.50 GPa | 508 ksi | ISO 178 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact, Notched | 0.700 J/cm ² | 3.33 ft-lb/in ² | ISO 179 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 0.700 J/cm ² | 3.33 ft-lb/in ² | ISO 179 |
| | @Temperature -20.0 °C | @Temperature -4.00 °F | |

| Thermal Properties | Metric | English | Comments |
|---|----------------|----------------|-------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 140 °C | 284 °F | 120°C/h; ISO 75/1 |
| Deflection Temperature at 1.8 MPa (264 psi) | 131 °C | 268 °F | 120°C/h; ISO 75/1 |
| Vicat Softening Point | 143 °C | 289 °F | 50°C/h; ISO 306 |
| | @Load 5.001 kg | @Load 11.03 lb | |
| Flammability, UL94 | V-0 | V-0 | |

| Thermal Properties | @Thickness 1.60 mm Metric | @Thickness 0.0630 in English | Comments |
|--------------------|------------------------------|---------------------------------|-------------|
| Glow Wire Test | 960 °C | 1760 °F | IEC 695-2-1 |
| | @Thickness 2.00 mm | @Thickness 0.0787 in | |

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