

Polykemi AB SCANMID 6 B12^ F40 Nylon 6, Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 40% Glass Fiber Filled

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-SCANMID-6-B12-F40-Nylon-6-Glass-Fiber-Reinforced.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|---------------------------|-----------------------|
| Density | 1.46 g/cc | 0.0527 lb/in ³ | ISO 1183 |
| Filler Content | 40 % | 40 % | ±2%; Polykemi |
| Linear Mold Shrinkage | 0.0030 cm/cm | 0.0030 in/in | With Flow; ISO 2577 |
| | 0.0090 cm/cm | 0.0090 in/in | Across Flow; ISO 2577 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------------------|----------------------------|----------|
| Tensile Strength at Break | <= 185 MPa | <= 26800 psi | ISO/R527 |
| Flexural Strength | <= 260 MPa | <= 37700 psi | ISO 178 |
| Flexural Modulus | 10.2 GPa | 1480 ksi | ISO 178 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact Unnotched | NB | NB | ISO 179 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact Unnotched | NB | NB | ISO 179 |
| | @Temperature -20.0 °C | @Temperature -4.00 °F | |
| Charpy Impact, Notched | 1.10 J/cm ² | 5.23 ft-lb/in ² | ISO 179 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |

| Thermal Properties | Metric | English | Comments |
|---|----------------|----------------|-------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 215 °C | 419 °F | 120°C/h; ISO 75/1 |
| Deflection Temperature at 1.8 MPa (264 psi) | 205 °C | 401 °F | 120°C/h; ISO 75/1 |
| Vicat Softening Point | >= 200 °C | >= 392 °F | 50°C/h; ISO 306 |
| | @Load 5.001 kg | @Load 11.03 lb | |
| Flammability, UL94 | HB | HB | |

| Thermal Properties | @Thickness 1.60 mm Metric | @Thickness 0.0630 in English | Comments |
|--------------------|------------------------------|---------------------------------|-------------|
| Glow Wire Test | 650 °C | 1200 °F | IEC 695-2-1 |
| | @Thickness 2.00 mm | @Thickness 0.0787 in | |

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