

Polykemi AB POLYshine PBT D234 GF30 FR PBT, Glass-Fiber Reinforced, Flame Retardant

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled , Polybutylene Terephthalate (PBT), 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-POLYshine-PBT-D234-GF30-FR-PBT-Glass-Fiber-Reinforced-Flame-Retardant.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|---------------|
| Density | 1.68 g/cc | 0.0607 lb/in ³ | ISO 1183 |
| Filler Content | 30 % | 30 % | ±2%; Polykemi |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|--|---|----------|
| Tensile Strength at Break | <= 73.0 MPa | <= 10600 psi | ISO/R527 |
| Elongation at Break | 5.0 % | 5.0 % | ISO/R527 |
| Flexural Strength | <= 115 MPa | <= 16700 psi | ISO 178 |
| Flexural Modulus | 5.20 GPa @Temperature 23.0 °C | 754 ksi @Temperature 73.4 °F | ISO 178 |
| Charpy Impact, Notched | 0.400 J/cm ² @Temperature -20.0 °C | 1.90 ft-lb/in ² @Temperature -4.00 °F | ISO 179 |
| | 0.600 J/cm ² @Temperature 23.0 °C | 2.86 ft-lb/in ² @Temperature 73.4 °F | ISO 179 |

| Thermal Properties | Metric | English | Comments |
|---|---------------------------|-----------------------------|-------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 214 °C | 417 °F | 120°C/h; ISO 75/1 |
| Deflection Temperature at 1.8 MPa (264 psi) | 183 °C | 361 °F | 120°C/h; ISO 75/1 |
| Flammability, UL94 | V-0 @Thickness 1.00 mm | V-0 @Thickness 0.0394 in | |

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