

Polyram PF300G3 PBT, 15% Glass Fiber

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 20% Glass Fiber Filled

Material Notes:

15% Glass-Fiber reinforced PBT for injection molding applications Information provided by Polyram Ram On Ind.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PF300G3-PBT-15-Glass-Fiber.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|---|---|--------------------------|
| Density | 1.40 g/cc | 0.0506 lb/in ³ | DIN 53479 |
| Water Absorption | 0.50 % | 0.50 % | DIN 53495 |
| Moisture Absorption at Equilibrium | 0.15 % | 0.15 % | 23° C, 50% RH; DIN 53714 |
| Linear Mold Shrinkage | 0.0040 cm/cm | 0.0040 in/in | |
| Melt Flow | 20 g/10 min @Load 2.16 kg, Temperature 250 °C | 20 g/10 min @Load 4.76 lb, Temperature 482 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------------------------------|---------------------------------------|-----------|
| Tensile Strength, Yield | 90.0 MPa | 13100 psi | ASTM-D638 |
| Elongation at Break | 3.0 % | 3.0 % | ASTM-D638 |
| Flexural Strength | 130 MPa | 18900 psi | ASTM D790 |
| Flexural Modulus | 4.30 GPa | 624 ksi | ASTM-D790 |
| Izod Impact, Notched | 0.700 J/cm @Temperature 23.0 °C | 1.31 ft-lb/in @Temperature 73.4 °F | ASTM-D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------------------------|---------------------------|-----------|
| Melting Point | 225 °C | 437 °F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 220 °C | 428 °F | DIN 53461 |
| Deflection Temperature at 1.8 MPa (264 psi) | 210 °C | 410 °F | DIN 53461 |
| Flammability, UL94 | HB @Thickness 3.00 mm | HB @Thickness 0.118 in | |
| Glow Wire Test | 650 °C | 1200 °F | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------------------------|-----------------------------------|------------|
| Volume Resistivity | $\geq 1.00 \times 10^{15}$ ohm-cm | $\geq 1.00 \times 10^{15}$ ohm-cm | DIN 53482 |
| Dielectric Constant | 3.6 @Frequency 1e+6 Hz | 3.6 @Frequency 1e+6 Hz | VDE 0303/4 |
| Dielectric Strength | 34.0 kV/mm | 864 kV/in | VDE 0303/4 |

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