

Polyram RamSter PF300G9 PBT, 45% Glass Fiber

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 50% Glass Fiber Filled

Material Notes:

45% Glass fiber reinforced PBT for injection molding applications. Information provided by Polyram.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-RamSter-PF300G9-PBT-45-Glass-Fiber.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|---|---|----------------|
| Density | 1.67 g/cc | 0.0603 lb/in ³ | ISO 1183 |
| Moisture Absorption at Equilibrium | 0.10 % | 0.10 % | 50% RH; ISO 62 |
| Water Absorption at Saturation | 0.50 % | 0.50 % | ISO 62 |
| Linear Mold Shrinkage | 0.0025 cm/cm | 0.0025 in/in | ISO 2577 |
| Melt Flow | 10 g/10 min @Load 2.16 kg, Temperature 250 °C | 10 g/10 min @Load 4.76 lb, Temperature 482 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------------------|----------------------------|----------|
| Tensile Strength, Yield | 150 MPa | 21800 psi | ISO 527 |
| Elongation at Break | 3.0 % | 3.0 % | ISO 527 |
| Tensile Modulus | 13.7 GPa | 1990 ksi | ISO 527 |
| Flexural Strength | 220 MPa | 31900 psi | ISO 178 |
| Flexural Modulus | 13.0 GPa | 1890 ksi | ISO 178 |
| Izod Impact, Notched (ISO) | 18.0 kJ/m ² | 8.57 ft-lb/in ² | ISO 180 |

| Thermal Properties | Metric | English | Comments |
|---|--------------------------|---------------------------|-----------------|
| Melting Point | 225 °C | 437 °F | ISO 11357 |
| Deflection Temperature at 0.46 MPa (66 psi) | 220 °C | 428 °F | ISO 75 |
| Deflection Temperature at 1.8 MPa (264 psi) | 210 °C | 410 °F | ISO 75 |
| Flammability, UL94 | HB @Thickness 3.00 mm | HB @Thickness 0.118 in | |
| Glow Wire Test | 650 °C | 1200 °F | GWFI; IEC 60695 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|---------------------------------|---------------------------------|-----------|
| Volume Resistivity | 1.00e+15 ohm-cm | 1.00e+15 ohm-cm | IEC 60093 |
| Dielectric Constant | 3.8 @Frequency 1.00e+6 Hz | 3.8 @Frequency 1.00e+6 Hz | IEC 60250 |
| Dielectric Strength | 34.0 kV/mm | 864 kV/in | IEC 60250 |

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