

Barlog Plastics KEBATER A9045 PBT, 45% glass fiber reinforced, improved surface quality, reduced warpage, food grade

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

Material Notes:

(PBT+X)-GF45 Information provided by BARLOG plastics GmbH.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Barlog-Plastics-KEBATER-A9045-PBT-45-glass-fiber-reinforced-improved-surface-quality-reduced-warpage-food-grade.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|---|---|------------------------|
| Density | 1.68 g/cc | 0.0607 lb/in ³ | ISO 1183 |
| Moisture Absorption at Equilibrium | 0.15 % | 0.15 % | similar to ISO 62 test |
| Melt Flow | 30 g/10 min @Load 5.00 kg, Temperature 260 °C | 30 g/10 min @Load 11.0 lb, Temperature 500 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------------------|----------------------------|-------------|
| Tensile Strength at Break | 165 MPa | 23900 psi | ISO 527-1 |
| Elongation at Break | 2.0 % | 2.0 % | ISO 527-1 |
| Tensile Modulus | 16.5 GPa | 2390 ksi | ISO 527-1 |
| Charpy Impact Unnotched | 6.50 J/cm ² | 30.9 ft-lb/in ² | ISO 179-1eU |
| Charpy Impact, Notched | 1.10 J/cm ² | 5.23 ft-lb/in ² | ISO 179-1eA |

| Thermal Properties | Metric | English | Comments |
|---|---------------------------|----------------------------|--------------------------------|
| Melting Point | 225 °C | 437 °F | 10°C/min; ISO 11357-1/-3 |
| Deflection Temperature at 1.8 MPa (264 psi) | 210 °C | 410 °F | ISO 75-1/-2 |
| Flammability, UL94 | HB @Thickness 0.800 mm | HB @Thickness 0.0315 in | UL Registered; IEC 60695-11-10 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity | 1.00e+15 ohm-cm | 1.00e+15 ohm-cm | IEC 60093 |
| Surface Resistance | 1.00e+15 ohm | 1.00e+15 ohm | IEC 60093 |

| Descriptive Properties | Value | Comments |
|------------------------|--------------|----------|
| Resin Type | (PBT+X)-GF45 | |

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