

Barlog Plastics KEBATER BF230 PBT, 30% glass fiber reinforced, food grade

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

Material Notes:

PBT-GF30 Information provided by BARLOG plastics GmbH.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Barlog-Plastics-KEBATER-BF230-PBT-30-glass-fiber-reinforced-food-grade.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|--------------|---------------------------|------------------------|
| Density | 1.52 g/cc | 0.0549 lb/in ³ | ISO 1183 |
| Moisture Absorption at Equilibrium | 0.15 % | 0.15 % | similar to ISO 62 test |
| Linear Mold Shrinkage, Flow | 0.0040 cm/cm | 0.0040 in/in | ISO 294-4 |
| Linear Mold Shrinkage, Transverse | 0.010 cm/cm | 0.010 in/in | ISO 294-4 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------------------|----------------------------|-------------|
| Tensile Strength at Break | 145 MPa | 21000 psi | ISO 527-1 |
| Elongation at Break | 3.0 % | 3.0 % | ISO 527-1 |
| Tensile Modulus | 10.0 GPa | 1450 ksi | ISO 527-1 |
| Charpy Impact Unnotched | 6.00 J/cm ² | 28.6 ft-lb/in ² | ISO 179-1eU |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| Charpy Impact Unnotched | 6.00 J/cm ² | 28.6 ft-lb/in ² | ISO 179-1eU |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact, Notched | 1.20 J/cm ² | 5.71 ft-lb/in ² | ISO 179-1eA |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| Charpy Impact, Notched | 1.20 J/cm ² | 5.71 ft-lb/in ² | ISO 179-1eA |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |

| Thermal Properties | Metric | English | Comments |
|---|--------------|----------------|--------------------------|
| CTE, linear, Parallel to Flow | 40.0 µm/m-°C | 22.2 µin/in-°F | ISO 11359-1/-2 |
| CTE, linear, Transverse to Flow | 70.0 µm/m-°C | 38.9 µin/in-°F | ISO 11359-1/-2 |
| Melting Point | 225 °C | 437 °F | 10°C/min; ISO 11357-1/-3 |
| Deflection Temperature at 0.46 MPa (66 psi) | 220 °C | 428 °F | ISO 75-1/-2 |

| Deflection Temperature at 1.8 MPa (104 psi) Thermal Properties | 205 °C Metric | 401 °F English | ISO 75-1/-2 Comments |
|--|---------------------------|----------------------------|--------------------------------|
| 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+17 ohm-cm | 1.00e+17 ohm-cm | IEC 60093 |
| Surface Resistance | 1.00e+15 ohm | 1.00e+15 ohm | IEC 60093 |

| Descriptive Properties | Value | Comments |
|------------------------|----------|----------|
| Resin Type | PBT-GF30 | |

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