

BASF Ultradur® S 4090 G6X High Speed 30% Glass Filled PBT

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

Material Notes:

Description: Low-warpage, easy-flowing injection molding grade with 30 % glass fibers for technical parts, for which dimensional stability is very important, reduction of wall thickness (eg, e/e housings, plug-and-socket connectors. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultradur-S-4090-G6X-High-Speed-30-Glass-Filled-PBT.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|--------------------|------------------------------------|--|
| Bulk Density | 0.600 - 0.900 g/cc | 0.0217 - 0.0325 lb/in ³ | |
| Water Absorption | 0.40 % | 0.40 % | ISO 62 |
| Moisture Absorption at Equilibrium | 0.20 % | 0.20 % | ISO 62 |
| Viscosity Measurement | 95 | 95 | [cm ³ /g]; ISO 307 |
| Linear Mold Shrinkage, Flow | 0.0013 cm/cm | 0.0013 in/in | plate with film gate 150x150x3mm ³ |
| | 0.0032 cm/cm | 0.0032 in/in | ISO 2577 |
| Linear Mold Shrinkage, Transverse | 0.00889 cm/cm | 0.00889 in/in | plate with film gate 150x150x3mm ³ |
| | 0.0097 cm/cm | 0.0097 in/in | ISO 2577 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-------------------------|----------------------------|--------------|
| Tensile Strength at Break | 120 MPa | 17400 psi | ISO 527-1/-2 |
| Elongation at Break | 2.2 % | 2.2 % | ISO 527-1/-2 |
| Tensile Modulus | 9.50 GPa | 1380 ksi | ISO 527-1/-2 |
| Charpy Impact Unnotched | 4.00 J/cm ² | 19.0 ft-lb/in ² | ISO 179/1eU |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| | 5.00 J/cm ² | 23.8 ft-lb/in ² | ISO 179/1eU |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact, Notched | 0.780 J/cm ² | 3.71 ft-lb/in ² | ISO 179/1eA |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------------|
| Melting Point | 223 °C | 433 °F | ISO 11357-1/-2 |

| Maximum Service Temperature, Air Thermal Properties | 170 °C Metric | 338 °F English | Comments |
|---|--------------------------|----------------------------|-------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 220 °C | 428 °F | ISO 75-1/-2 |
| Deflection Temperature at 1.8 MPa (264 psi) | 200 °C | 392 °F | ISO 75-1/-2 |
| Decomposition Temperature | >= 300 °C | >= 572 °F | |
| Flammability, UL94 | HB @Thickness 1.60 mm | HB @Thickness 0.0630 in | |

| Electrical Properties | Metric | English | Comments |
|----------------------------|-----------------------|-----------------------|----------------------------|
| Volume Resistivity | 2.00e+15 ohm-cm | 2.00e+15 ohm-cm | IEC 60093 |
| Dielectric Constant | 3.7 | 3.7 | IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| Dissipation Factor | 3.9 | 3.9 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| Comparative Tracking Index | 0.0046 | 0.0046 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| Comparative Tracking Index | 0.0202 | 0.0202 | IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| Comparative Tracking Index | 425 V | 425 V | Test Solution A; IEC 60112 |

| Processing Properties | Metric | English | Comments |
|-----------------------|---------------|--------------|-----------------------------|
| Melt Temperature | 250 - 275 °C | 482 - 527 °F | Injection molding/Extrusion |
| Mold Temperature | 60.0 - 100 °C | 140 - 212 °F | Injection molding |

| Descriptive Properties | Value | Comments |
|------------------------|--------|------------|
| Commercial Status | Europe | |
| Ignition Temperature | >400°C | ASTM D1929 |

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