

Eurotec® Tecoform® P030 GB30 NL HS POM, 30% glass bead reinforced, heat stabilized, natural

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Glass Bead Filled

Material Notes:

Information provided by Eurotec®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurotec-Tecoform-P030-GB30-NL-HS-POM-30-glass-bead-reinforced-heat-stabilized-natural.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|---------------------------------|---------------------------------|-----------------|
| Density | 1.58 g/cc | 0.0571 lb/in ³ | ISO 1183 |
| Moisture Absorption | 0.200 % @Temperature 23.0 °C | 0.200 % @Temperature 73.4 °F | 50% RH; ISO 960 |
| Linear Mold Shrinkage, Flow | 0.015 cm/cm | 0.015 in/in | Eurotec |
| Linear Mold Shrinkage, Transverse | 0.015 cm/cm | 0.015 in/in | Eurotec |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---|---|------------|
| Tensile Strength at Break | 50.0 MPa | 7250 psi | ISO 527 |
| Elongation at Break | 10 % | 10 % | ISO 527 |
| Tensile Modulus | 3.50 GPa | 508 ksi | ISO 527 |
| Izod Impact, Notched (ISO) | 4.00 kJ/m ² @Temperature -30.0 °C | 1.90 ft-lb/in ² @Temperature -22.0 °F | ISO 180/1A |
| | 5.00 kJ/m ² @Temperature 23.0 °C | 2.38 ft-lb/in ² @Temperature 73.4 °F | ISO 180/1A |

| Thermal Properties | Metric | English | Comments |
|---|---------------------------|----------------------------|-----------------------|
| Melting Point | 165 °C | 329 °F | [10 K/min], ISO 11357 |
| Deflection Temperature at 1.8 MPa (264 psi) | 115 °C | 239 °F | ISO 75 |
| Flammability, UL94 | HB @Thickness 0.750 mm | HB @Thickness 0.0295 in | |
| | HB @Thickness 1.60 mm | HB @Thickness 0.0630 in | |

| Electrical Properties | Metric | English | Comments |
|----------------------------|-----------------|-----------------|-----------------------|
| Volume Resistivity | 1.00e+14 ohm-cm | 1.00e+14 ohm-cm | IEC 60093 |
| Surface Resistance | 1.00e+16 ohm | 1.00e+16 ohm | IEC 60093 |
| Comparative Tracking Index | 500 V | 500 V | Solution A; IEC 60112 |

| Processing Properties | Metric | English | Comments |
|------------------------|------------------|-------------------|----------|
| Processing Temperature | 190 - 230 °C | 374 - 446 °F | |
| Feed Temperature | 30.0 - 50.0 °C | 86.0 - 122 °F | Throat |
| Mold Temperature | 60.0 - 120 °C | 140 - 248 °F | |
| Drying Temperature | 100 - 120 °C | 212 - 248 °F | |
| Dry Time | 3.00 - 6.00 hour | 3.00 - 6.00 hour | |
| Hold Pressure | 80.0 - 100 MPa | 11600 - 14500 psi | |

| Descriptive Properties | Value | Comments |
|------------------------|---------------|----------|
| Back Pressure | Low | |
| Injection Speed | Medium - Fast | |

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