

Eurotec® Tecomid® NA40 GR30 NL HS PA6.6, 30% glass fiber reinforced, heat stabilized, natural

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled , Nylon 66, Heat Stabilized

Material Notes:

Information provided by Eurotec®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurotec-Tecomid-NA40-GR30-NL-HS-PA66-30-glass-fiber-reinforced-heat-stabilized-natural.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|--------------------------------|--------------------------------|----------------|
| Density | 1.36 g/cc | 0.0491 lb/in ³ | ISO 1183 |
| Moisture Absorption | 1.90 % @Temperature 23.0 °C | 1.90 % @Temperature 73.4 °F | 50% RH; ISO 62 |
| Linear Mold Shrinkage, Flow | 0.0030 cm/cm | 0.0030 in/in | Eurotec |
| Linear Mold Shrinkage, Transverse | 0.011 cm/cm | 0.011 in/in | Eurotec |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|---|---|------------|
| Tensile Strength at Break | 185 MPa | 26800 psi | ISO 527 |
| Elongation at Break | 3.0 % | 3.0 % | ISO 527 |
| Tensile Modulus | 10.0 GPa | 1450 ksi | ISO 527 |
| Izod Impact, Notched (ISO) | 11.0 kJ/m ² @Temperature -30.0 °C | 5.23 ft-lb/in ² @Temperature -22.0 °F | ISO 180/1A |
| | 13.0 kJ/m ² @Temperature 23.0 °C | 6.19 ft-lb/in ² @Temperature 73.4 °F | ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 70.0 kJ/m ² @Temperature -30.0 °C | 33.3 ft-lb/in ² @Temperature -22.0 °F | ISO 180/1U |
| | 80.0 kJ/m ² @Temperature 23.0 °C | 38.1 ft-lb/in ² @Temperature 73.4 °F | ISO 180/1U |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|-----------------------|
| Melting Point | 262 °C | 504 °F | [10 K/min], ISO 11357 |
| Deflection Temperature at 0.46 MPa (66 psi) | 260 °C | 500 °F | ISO 75 |
| Deflection Temperature at 1.8 MPa (264 psi) | 255 °C | 491 °F | ISO 75 |

| Thermal Properties | Metric | English | Comments |
|-----------------------|---------------------|----------------------|----------|
| Vicat Softening Point | @Load 5.10 kg | @Load 11.2 lb | ISO 306 |
| Flammability, UL94 | HB | HB | |
| | @Thickness 0.750 mm | @Thickness 0.0295 in | |
| | HB | HB | |
| | @Thickness 1.60 mm | @Thickness 0.0630 in | |

| Electrical Properties | Metric | English | Comments |
|----------------------------|-----------------|-----------------|-----------------------|
| Volume Resistivity | 1.00e+15 ohm-cm | 1.00e+15 ohm-cm | IEC 60093 |
| Surface Resistance | 1.00e+13 ohm | 1.00e+13 ohm | IEC 60093 |
| Comparative Tracking Index | 500 V | 500 V | Solution A; IEC 60112 |

| Processing Properties | Metric | English | Comments |
|------------------------|------------------|------------------|----------|
| Processing Temperature | 270 - 300 °C | 518 - 572 °F | |
| Feed Temperature | 60.0 - 80.0 °C | 140 - 176 °F | Throat |
| Mold Temperature | 70.0 - 110 °C | 158 - 230 °F | |
| Drying Temperature | 80.0 °C | 176 °F | |
| Dry Time | 2.00 - 4.00 hour | 2.00 - 4.00 hour | |
| Moisture Content | <= 0.20 % | <= 0.20 % | ISO 960 |
| Hold Pressure | 50.0 - 100 MPa | 7250 - 14500 psi | |

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

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