

Eurotec® Tecomid® NT40 NL MB PPA, impact modified, heat stabilized, natural

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), High Impact

Material Notes:

Information provided by Eurotec®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurotec-Tecomid-NT40-NL-MB-PPA-impact-modified-heat-stabilized-natural.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|--------------------------------|--------------------------------|-----------------|
| Density | 1.15 g/cc | 0.0415 lb/in ³ | ISO 1183 |
| Moisture Absorption | 2.20 % @Temperature 23.0 °C | 2.20 % @Temperature 73.4 °F | 50% RH; ISO 960 |
| Linear Mold Shrinkage, Flow | 0.017 cm/cm | 0.017 in/in | Eurotec |
| Linear Mold Shrinkage, Transverse | 0.017 cm/cm | 0.017 in/in | Eurotec |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---|---|------------|
| Tensile Strength, Yield | 80.0 MPa | 11600 psi | ISO 527 |
| Elongation at Break | 10 % | 10 % | ISO 527 |
| Tensile Modulus | 2.75 GPa | 399 ksi | ISO 527 |
| Izod Impact, Notched (ISO) | 18.0 kJ/m ² @Temperature -30.0 °C | 8.57 ft-lb/in ² @Temperature -22.0 °F | ISO 180/1A |
| | 20.0 kJ/m ² @Temperature 23.0 °C | 9.52 ft-lb/in ² @Temperature 73.4 °F | ISO 180/1A |

| Thermal Properties | Metric | English | Comments |
|---|---------------------------|----------------------------|-----------------------|
| Melting Point | 315 °C | 599 °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 Electrical Properties | 1.00e+15 ohm-cm Metric | 1.00e+15 ohm-cm English | IEC 60093 Comments |
|---|---------------------------|----------------------------|-----------------------|
| Surface Resistance | 1.00e+13 ohm | 1.00e+13 ohm | IEC 60093 |
| Comparative Tracking Index | 600 V | 600 V | Solution A; IEC 60112 |

| Processing Properties | Metric | English | Comments |
|------------------------|-----------------|------------------|----------|
| Processing Temperature | 320 - 340 °C | 608 - 644 °F | |
| Feed Temperature | 60.0 - 80.0 °C | 140 - 176 °F | Throat |
| Mold Temperature | 70.0 - 90.0 °C | 158 - 194 °F | |
| Drying Temperature | 120 °C | 248 °F | |
| Dry Time | 4.00 hour | 4.00 hour | |
| Moisture Content | <= 0.20 % | <= 0.20 % | ISO 960 |
| Hold Pressure | 40.0 - 80.0 MPa | 5800 - 11600 psi | |

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

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