

Eurotec® Tecopet® PT74 GR20 BK002 XA20 PET, 20% glass fiber reinforced, flame retardant - halogen (RoHS compliant), heat stabilized, black

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 20% Glass Reinforced

Material Notes:

Information provided by Eurotec®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurotec-Tecopet-PT74-GR20-BK002-XA20-PET-20-glass-fiber-reinforced-flame-retardant-halogen-RoHS-compliant-heat-stabilized-black.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|---------------------------------|---------------------------------|-----------------|
| Density | 1.63 g/cc | 0.0589 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 | 0.0020 cm/cm | 0.0020 in/in | Eurotec |
| Linear Mold Shrinkage, Transverse | 0.0090 cm/cm | 0.0090 in/in | Eurotec |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|---|---|------------|
| Tensile Strength at Break | 100 MPa | 14500 psi | ISO 527 |
| Elongation at Break | 2.0 % | 2.0 % | ISO 527 |
| Tensile Modulus | 8.50 GPa | 1230 ksi | ISO 527 |
| Izod Impact, Notched (ISO) | 6.00 kJ/m ² @Temperature -30.0 °C | 2.86 ft-lb/in ² @Temperature -22.0 °F | ISO 180/1A |
| | 7.00 kJ/m ² @Temperature 23.0 °C | 3.33 ft-lb/in ² @Temperature 73.4 °F | ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 35.0 kJ/m ² @Temperature -30.0 °C | 16.7 ft-lb/in ² @Temperature -22.0 °F | ISO 180/1U |
| | 40.0 kJ/m ² @Temperature 23.0 °C | 19.0 ft-lb/in ² @Temperature 73.4 °F | ISO 180/1U |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|-----------------------|
| Melting Point | 250 °C | 482 °F | [10 K/min], ISO 11357 |
| Deflection Temperature at 1.8 MPa (264 psi) | 210 °C | 410 °F | ISO 75 |
| | V-0 | V-0 | |

| Thermal Properties | Metric | English | Comments |
|--------------------|---------------------|-----------------------|-----------------|
| | @ Thickness 1.60 mm | @ Thickness 0.0630 in | |
| Glow Wire Test | 960 °C | 1760 °F | GWFI; IEC 60695 |
| | @ Thickness 2.00 mm | @ Thickness 0.0787 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | IEC 60093 |
| Surface Resistance | 1.00e+14 ohm | 1.00e+14 ohm | IEC 60093 |

| Processing Properties | Metric | English | Comments |
|------------------------|----------------|------------------|----------|
| Processing Temperature | 260 - 280 °C | 500 - 536 °F | |
| Feed Temperature | 50.0 - 70.0 °C | 122 - 158 °F | Throat |
| Mold Temperature | 120 - 140 °C | 248 - 284 °F | |
| Drying Temperature | 120 - 140 °C | 248 - 284 °F | |
| Dry Time | 4.00 hour | 4.00 hour | |
| Moisture Content | <= 0.080 % | <= 0.080 % | ISO 960 |
| Hold Pressure | 60.0 - 100 MPa | 8700 - 14500 psi | |

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

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