

Eurotec® Tecotek® PC40 NL FA70 PC, unfilled, flame retardant - (RoHS compliant), natural

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Unreinforced, Flame Retardant

Material Notes:

Information provided by Eurotec®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurotec-Tecotek-PC40-NL-FA70-PC-unfilled-flame-retardant-RoHS-compliant-natural.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|---------------------------------|---------------------------------|-----------------|
| Density | 1.23 g/cc | 0.0444 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 | 0.0050 cm/cm | 0.0050 in/in | Eurotec |
| Linear Mold Shrinkage, Transverse | 0.0050 cm/cm | 0.0050 in/in | Eurotec |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|--|--|------------|
| Tensile Strength at Break | 65.0 MPa | 9430 psi | ISO 527 |
| Elongation at Break | >= 20 % | >= 20 % | ISO 527 |
| Tensile Modulus | 2.75 GPa | 399 ksi | ISO 527 |
| Izod Impact, Notched (ISO) | 8.00 kJ/m ² @Temperature 23.0 °C | 3.81 ft-lb/in ² @Temperature 73.4 °F | ISO 180/1A |

| Thermal Properties | Metric | English | Comments |
|---|------------------------------|---------------------------------|-----------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 140 °C | 284 °F | ISO 75 |
| Deflection Temperature at 1.8 MPa (264 psi) | 120 °C | 248 °F | ISO 75 |
| Vicat Softening Point | 140 °C @Load 5.10 kg | 284 °F @Load 11.2 lb | ISO 306 |
| Flammability, UL94 | V-0 @Thickness 1.60 mm | V-0 @Thickness 0.0630 in | |
| Glow Wire Test | 960 °C @Thickness 2.00 mm | 1760 °F @Thickness 0.0787 in | GWFI; IEC 60695 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|-----------------|-----------------|-----------------------|
| Volume Resistivity | 1.00e+15 ohm-cm | 1.00e+15 ohm-cm | IEC 60093 |
| Surface Resistance | 1.00e+15 ohm | 1.00e+15 ohm | IEC 60093 |
| Comparative Tracking Index | 225 V | 225 V | Solution A; IEC 60112 |

| Processing Properties | Metric | English | Comments |
|------------------------|------------------|------------------|----------|
| Processing Temperature | 250 - 290 °C | 482 - 554 °F | |
| Feed Temperature | 60.0 - 80.0 °C | 140 - 176 °F | Throat |
| Mold Temperature | 80.0 - 100 °C | 176 - 212 °F | |
| Drying Temperature | 120 °C | 248 °F | |
| Dry Time | 3.00 - 4.00 hour | 3.00 - 4.00 hour | |
| Moisture Content | <= 0.10 % | <= 0.10 % | ISO 960 |
| Hold Pressure | 60.0 - 120 MPa | 8700 - 17400 psi | |

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

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