

Techmer ES Plastiblend® PC/PBT IM 5220 BK

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Unreinforced , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

Availability: North America Forms: Pellets Additive: Impact Modifier and UV Stabilizer Features: Impact Modified Appearance:

Black Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Plastiblend-PCPBT-IM-5220-BK.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--------------------|---------------------------|-----------|
| Density | 1.21 g/cc | 0.0437 lb/in ³ | ASTM D792 |
| Water Absorption | 0.10 % | 0.10 % | ASTM D570 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Flow | 0.0070 cm/cm | 0.0070 in/in | ASTM D955 |
| | @Thickness 3.17 mm | @Thickness 0.125 in | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--|---|-----------|
| Hardness, Rockwell R | 113 | 113 | ASTM D785 |
| Tensile Strength, Yield | 52.4 MPa | 7600 psi | ASTM D638 |
| Elongation at Break | 130 % | 130 % | ASTM D638 |
| Flexural Yield Strength | 84.1 MPa | 12200 psi | ASTM D790 |
| Flexural Modulus | 2.00 GPa | 290 ksi | ASTM D790 |
| Izod Impact, Notched | 2.94 J/cm | 5.50 ft-lb/in | ASTM D256 |
| | @Thickness 3.17 mm, Temperature -40.0 °C | @Thickness 0.125 in, Temperature -40.0 °F | |
| | 6.94 J/cm | 13.0 ft-lb/in | ASTM D256 |
| | @Thickness 3.17 mm, Temperature 22.8 °C | @Thickness 0.125 in, Temperature 73.0 °F | |

| Thermal Properties | Metric | English | Comments |
|---|--------------|----------------|-----------------------|
| CTE, linear, Parallel to Flow | 23.4 µm/m-°C | 13.0 µin/in-°F | ASTM D696 |
| Deflection Temperature at 0.46 MPa (66 psi) | 107 °C | 225 °F | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 98.9 °C | 210 °F | Unannealed; ASTM D648 |

| Flammability UL 94 Thermal Properties | HB Metric | HB English | Comments |
|--|-----------------|-----------------|-----------|
| Electrical Properties | Metric | English | Comments |
| Volume Resistivity | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | ASTM D257 |

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