

Techmer ES Electrablend® PC NCF15 FR 15% Nickel-Coated Carbon Filled

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Carbon Fiber Reinforced

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Nickel-Coated Carbon Fiber Reinforcement, 20% Filler by Weight
Features: Electromagnetic Shielding (EMI) and Flame Retardant
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-PC-NCF15-FR-15-Nickel-Coated-Carbon-Filled.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|------------------------------------|-------------------------------------|-----------|
| Density | 1.33 g/cc | 0.0480 lb/in ³ | ASTM D792 |
| Water Absorption | 0.10 % @Time 86400 sec | 0.10 % @Time 24.0 hour | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0020 cm/cm @Thickness 3.17 mm | 0.0020 in/in @Thickness 0.125 in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------------------------------|--------------------------------------|-----------|
| Tensile Strength, Yield | 126 MPa | 18300 psi | ASTM D638 |
| Elongation at Break | 2.8 % | 2.8 % | ASTM D638 |
| Flexural Yield Strength | 152 MPa | 22000 psi | ASTM D790 |
| Flexural Modulus | 7.58 GPa | 1100 ksi | ASTM D790 |
| Izod Impact, Notched | 0.694 J/cm @Thickness 3.17 mm | 1.30 ft-lb/in @Thickness 0.125 in | ASTM D256 |
| Izod Impact, Unnotched | 3.47 J/cm @Thickness 3.17 mm | 6.50 ft-lb/in @Thickness 0.125 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|---------------------------|-----------------------------|-----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 141 °C | 285 °F | Unannealed; ASTM D648 |
| Flammability, UL94 | V-0 @Thickness 1.50 mm | V-0 @Thickness 0.0590 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|-----------|
| Volume Resistivity | 10000 ohm-cm | 10000 ohm-cm | ASTM D257 |
| Surface Resistance | 10000 ohm | 10000 ohm | ASTM D257 |

| Electrical Properties | Metric | English | Comments |
|-------------------------|-----------------|-----------------|------------|
| Static Decay | ≤ 0.10 sec | ≤ 0.10 sec | FTMS 101B |
| Shielding Effectiveness | 59 dB | 59 dB | ASTM D4935 |

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