

Techmer ES Electrablend® PA12 Stainless Steel Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: /Glass/Stainless Steel Fiber Features: Conductive TPCI#

9873105 Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-PA12-Stainless-Steel-Filled.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|-----------------------------------|------------------------------------|-----------|
| Density | 1.08 g/cc | 0.0390 lb/in ³ | ASTM D792 |
| Water Absorption | 0.25 % @Time 86400 sec | 0.25 % @Time 24.0 hour | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.010 cm/cm @Thickness 3.17 mm | 0.010 in/in @Thickness 0.125 in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---------------------------------|--------------------------------------|-----------|
| Tensile Strength, Yield | 51.0 MPa | 7400 psi | ASTM D638 |
| Elongation at Break | 10 % | 10 % | ASTM D638 |
| Flexural Strength | 81.4 MPa | 11800 psi | ASTM D790 |
| Flexural Modulus | 1.21 GPa | 175 ksi | ASTM D790 |
| Izod Impact, Notched | 1.33 J/cm @Thickness 3.17 mm | 2.50 ft-lb/in @Thickness 0.125 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|----------------|------------------|-----------------------|
| CTE, linear, Parallel to Flow | 16.2 Åµm/m-Å°C | 9.00 Åµin/in-Å°F | ASTM D696 |
| Deflection Temperature at 1.8 MPa (264 psi) | 54.4 Å°C | 130 Å°F | Unannealed; ASTM D648 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|------------|------------|-----------|
| Volume Resistivity | 100 ohm-cm | 100 ohm-cm | ASTM D257 |
| Surface Resistance | 1000 ohm | 1000 ohm | ASTM D257 |

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