

Techmer ES Electrablend® ABS 03008 Stainless Steel Filled

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Stainless Steel Fiber Filled

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Stainless Steel Fiber Features: ESD Protection Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-ABS-03008-Stainless-Steel-Filled.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--------------------|---------------------------|-----------|
| Density | 1.10 g/cc | 0.0397 lb/in ³ | ASTM D792 |
| Water Absorption | 0.28 % | 0.28 % | ASTM D570 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Flow | 0.0050 cm/cm | 0.0050 in/in | ASTM D955 |
| | @Thickness 3.17 mm | @Thickness 0.125 in | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--------------------|---------------------|-----------|
| Tensile Strength, Yield | 50.3 MPa | 7300 psi | ASTM D638 |
| Elongation at Break | 4.0 % | 4.0 % | ASTM D638 |
| Flexural Strength | 89.6 MPa | 13000 psi | ASTM D790 |
| Flexural Modulus | 3.10 GPa | 450 ksi | ASTM D790 |
| Izod Impact, Notched | 0.587 J/cm | 1.10 ft-lb/in | ASTM D256 |
| | @Thickness 3.17 mm | @Thickness 0.125 in | |
| Izod Impact, Unnotched | 2.40 J/cm | 4.50 ft-lb/in | ASTM D256 |
| | @Thickness 3.17 mm | @Thickness 0.125 in | |

| Thermal Properties | Metric | English | Comments |
|---|--|--|-----------------------|
| CTE, linear, Parallel to Flow | 84.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 47.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ASTM D696 |
| Deflection Temperature at 0.46 MPa (66 psi) | 102 $\text{Å}^\circ\text{C}$ | 215 $\text{Å}^\circ\text{F}$ | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 96.1 $\text{Å}^\circ\text{C}$ | 205 $\text{Å}^\circ\text{F}$ | Unannealed; ASTM D648 |
| Flammability, UL94 | HB | HB | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Electrical Properties | 10000 - 1.00e+6 ohm- Metric | 10000 - 1.00e+6 ohm- English | Comments |
|-------------------------|---|---|-----------|
| Surface Resistance | 10000 - 1.00e+6 ohm | 10000 - 1.00e+6 ohm | ASTM D257 |
| Shielding Effectiveness | 40 dB @Frequency 3.00e+7 - 1.00e+9 Hz | 40 dB @Frequency 3.00e+7 - 1.00e+9 Hz | ASTM D149 |

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