

Electrafil® TPX-PPO/HIPS-03011

Techmer Polymer Modifiers - *Polyphenylene Ether + PS*

General

| | |
|------------------------|-------------------------|
| Material Status | • Commercial: Active |
| Availability | • North America |
| Filler / Reinforcement | • Carbon Fiber |
| Features | • Flame Retardant |
| Appearance | • Black • Natural Color |
| Forms | • Pellets |
| Processing Method | • Injection Molding |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|----------------------|-------------|--------------------|
| Density / Specific Gravity | 1.15 | | ASTM D792 |
| Molding Shrinkage - Flow (0.125 in) | 2.0E-3 | in/in | ASTM D955 |
| Water Absorption (24 hr) | 0.12 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Break) | 10500 | psi | ASTM D638 |
| Tensile Elongation (Break) | 3.0 | % | ASTM D638 |
| Flexural Modulus | 1.10E+6 | psi | ASTM D790 |
| Flexural Strength | 15500 | psi | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (73°F, 0.125 in) | 1.4 | ft·lb/in | ASTM D256 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (M-Scale) | 122 | | ASTM D785 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed) | 235 | °F | ASTM D648 |
| Deflection Temperature Under Load (264 psi, Unannealed) | 220 | °F | ASTM D648 |
| CLTE - Flow | 1.2E-5 | in/in/°F | ASTM D696 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1.0E+3 to 1.0E+5 | ohms | ASTM D257 |
| Volume Resistivity | 1.0E+3 to 1.0E+5 | ohms·cm | ASTM D257 |
| Static Decay | | | |
| -- | Not Tested | sec | MIL B-81705C |
| [5000 V - < 50 V] | | 20 msec | FTMS 101B |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (0.08 in) | • V-1 • 5VA | | UL 94 |

