# Electrafil® PPO/HIPS-03015

**Techmer Polymer Modifiers - *Polyphenylene Ether + PS***

## General Information

| General | |
|---|---|
| Material Status | • Commercial: Active |
| Availability | • North America |
| Filler / Reinforcement | • Carbon Fiber |
| Features | • Statically Conductive |
| Appearance | • Black |
| Forms | • Pellets |
| Processing Method | • Injection Molding |

## Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.20 | | 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) | 12500 | psi | ASTM D638 |
| Tensile Elongation (Break) | 3.0 | % | ASTM D638 |
| Flexural Modulus | 1.20E+6 | psi | ASTM D790 |
| Flexural Strength | 16300 | psi | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact (73°F, 0.125 in) | 1.3 | 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) | 268 | °F | ASTM D648 |
| Deflection Temperature Under Load (264 psi, Unannealed) | 250 | °F | ASTM D648 |
| CLTE - Flow | 1.2E-5 | in/in/°F | ASTM D696 |
| **Electrical** | **Nominal Value** | **Unit** | **Test Method** |
| Volume Resistivity | 1.0E+3 to 1.0E+5 | ohms·cm | ASTM D257 |
| **Flammability** | **Nominal Value** | **Unit** | **Test Method** |
| Flame Rating | | | UL 94 |
| 0.06 in | V-0 | | |
| 0.08 in | 5V | | |

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