

Electrafil® HDPE 04001 LE BK

High Density Polyethylene
Techmer Engineered Solutions

Message:

Electrafil® HDPE 04001 LE BK is a High Density Polyethylene product filled with filler. It can be processed by extrusion and is available in North America.
Typical application: Food Contact Applications.
Characteristics include:
Flame Rated
Conductive
ESD Protection

| General Information | | | |
|--------------------------------------|------------------------|-------------------|-------------|
| Filler / Reinforcement | Filler | | |
| Features | Conductive | | |
| | ESD Protection | | |
| Agency Ratings | FDA Unspecified Rating | | |
| Appearance | Black | | |
| Forms | Pellets | | |
| Processing Method | Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.988 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.80 | % | ASTM D955 |
| Water Absorption (24 hr) | 0.10 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Break) | 29.6 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 4.0 | % | ASTM D638 |
| Flexural Modulus | 1520 | MPa | ASTM D790 |
| Flexural Strength | 55.2 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 160 | J/m | ASTM D256 |
| Unnotched Izod Impact (3.18 mm) | 240 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 121 | °C | |
| 1.8 MPa, Unannealed | 73.9 | °C | |
| CLTE - Flow | 8.5E-5 | cm/cm/°C | ASTM D696 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1.0E+4 to 1.0E+6 | ohms | ASTM D257 |
| Volume Resistivity | 1.0E+4 to 1.0E+6 | ohms·cm | ASTM D257 |
| Shielding Effectiveness ¹ | 40 | dB | ASTM D149 |
| Flammability | Nominal Value | Unit | Test Method |

| | | |
|------------------------|----|-------|
| Flame Rating (1.50 mm) | HB | UL 94 |
| NOTE | | |

| | |
|----|----------------|
| 1. | 30 to 1000 MHz |
|----|----------------|

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