

Electrafil® HIPS E AS

High Impact Polystyrene

Techmer Engineered Solutions

Message:

Electrafil® HIPS E AS is a High Impact Polystyrene product. It can be processed by extrusion and is available in North America.

Characteristics include:

Flame Rated

Antistatic

Impact Resistant

| General Information | | | |
|--|------------------------|-------------------|-------------|
| Additive | Antistatic | | |
| Features | Antistatic | | |
| | High Impact Resistance | | |
| Appearance | Colors Available | | |
| | Natural Color | | |
| Forms | Pellets | | |
| Processing Method | Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.07 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 1.8 | g/10 min | ASTM D1238 |
| Water Absorption (24 hr) | 0.60 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (L-Scale) | 60 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 20.0 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 30 | % | ASTM D638 |
| Flexural Modulus | 1450 | MPa | ASTM D790 |
| Flexural Strength | 28.3 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 110 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 96.1 | °C | |
| 1.8 MPa, Unannealed | 85.0 | °C | |
| CLTE - Flow | 6.3E-5 | cm/cm/°C | ASTM D696 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1.0E+12 | ohms | ASTM D257 |
| Volume Resistivity | 1.0E+12 | ohms · cm | ASTM D257 |

| Flammability | Nominal Value | Unit | Test Method |
|------------------------|---------------|------|-------------|
| Flame Rating (1.50 mm) | HB | | UL 94 |

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Recommended distributors for this material

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