

HiFill® PBT 0143 S

Polybutylene Terephthalate
Techmer Engineered Solutions

Message:

HiFill® PBT 0143 S is a Polybutylene Terephthalate (PBT) product filled with metal. It can be processed by injection molding and is available in North America. Primary characteristic: flame rated.

| General Information | | | |
|---|-------------------|-------------------|-------------|
| Filler / Reinforcement | Metal | | |
| Appearance | Colors Available | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.46 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 1.6 | % | ASTM D955 |
| Water Absorption (24 hr) | 0.80 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 112 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 51.7 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 20 | % | ASTM D638 |
| Flexural Modulus | 2760 | MPa | ASTM D790 |
| Flexural Strength | 68.9 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 43 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 54.4 | °C | ASTM D648 |
| CLTE - Flow | 1.3E-4 | cm/cm/°C | ASTM D696 |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 1.0E+15 | ohms · cm | ASTM D257 |
| Dielectric Strength ¹ | 16 | kV/mm | ASTM D149 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | HB | | UL 94 |
| NOTE | | | |

1. Method A (Short-Time)

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

