

Beetle® PBTS145F

Polybutylene Terephthalate

Teknor Apex Company (Chem Polymer)

Message:

PBTC115F is a reinforced PBT/PET alloy containing 15% glass fiber. It achieves the best balance of mechanical properties and heat resistance, with excellent surface finish and mold release.

| General Information | | | |
|--|---|-------------------|-----------------|
| Filler / Reinforcement | Glass fiber reinforced material, 45% filler by weight | | |
| Features | Good demoulding performance | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.65 | g/cm ³ | ISO 1183 |
| Molding Shrinkage ¹ | 0.50 - 1.0 | % | Internal method |
| Water Absorption (Equilibrium, 23°C, 50% RH) | 0.060 | % | ISO 62 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 12000 | MPa | ISO 527-2 |
| Tensile Stress (Yield) | 160 | MPa | ISO 527-2 |
| Tensile Strain (Break) | 2.0 | % | ISO 527-2 |
| Flexural Modulus | 10000 | MPa | ISO 178 |
| Flexural Stress | 220 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength | 11 | kJ/m ² | ISO 179 |
| Charpy Unnotched Impact Strength | 50 | kJ/m ² | ISO 179 |
| Notched Izod Impact | 10 | kJ/m ² | ISO 180 |
| Unnotched Izod Impact Strength | 50 | kJ/m ² | ISO 180 |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature | | | |
| 0.45 MPa, not annealed | > 200 | °C | ISO 75-2/B |
| 1.8 MPa, not annealed | > 200 | °C | ISO 75-2/A |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1.0E+16 | ohms | IEC 60093 |
| Volume Resistivity | 1.0E+14 | ohms · cm | IEC 60093 |
| Dielectric Strength (3.00 mm) | 16 | kV/mm | IEC 60243-1 |
| Relative Permittivity | 3.60 | | IEC 60250 |
| Dissipation Factor (1 MHz) | 0.010 | | IEC 60250 |
| Comparative Tracking Index | 300 | V | IEC 60112 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (1.50 mm) | HB | | Internal method |

| Oxygen Index | 20 | % | ISO 4589-2 |
|------------------------|---------------|------|------------|
| Injection | Nominal Value | Unit | |
| Drying Temperature | 120 | °C | |
| Drying Time | 4.0 | hr | |
| Rear Temperature | 240 - 260 | °C | |
| Middle Temperature | 240 - 260 | °C | |
| Front Temperature | 240 - 260 | °C | |
| Processing (Melt) Temp | < 270 | °C | |
| Mold Temperature | 80.0 - 100 | °C | |
| Injection Rate | Moderate | | |
| Screw Speed | 50 - 200 | rpm | |
| Injection instructions | | | |
| 背压:低注射压力:高 | | | |
| NOTE | | | |

Mould shrinkage is significantly influenced by many factors including wall thickness, gating, component shape and moulding conditions. The range values stated were determined from specimen bar mouldings of 1.5mm to 4mm wall thickness. They are provided as a guide for comparison purposes only and no guarantee should be inferred from their inclusion. (Specimens measured in the dry state, 24 hours after moulding).

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