

LONGLITE® PBT 1100-202B

 Chang Chun Plastics Co., Ltd. (CCP Group) - *Polybutylene Terephthalate*
General Information
Product Description

PBT 1100-202B is a high toughness injection molding grade.

General

| | | | |
|-------------------------------|----------------------|---------------------|---------------------|
| Material Status | • Commercial: Active | | |
| Availability | • Asia Pacific | • Europe | • North America |
| Additive | • Mold Release | | |
| Features | • High Toughness | | |
| Forms | • Pellets | | |
| Processing Method | • Extrusion | • Injection Molding | • Profile Extrusion |
| Part Marking Code (ISO 11469) | • >PBT< | | |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|-------------------------------------------------------|----------------------|-----------------------|--------------------|
| Density | 1.29 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (250°C/2.16 kg) | 26 | g/10 min | ISO 1133 |
| Molding Shrinkage | | | ISO 294-4 |
| Across Flow | 1.8 to 2.0 | % | |
| Flow | 1.8 to 2.0 | % | |
| Water Absorption (Equilibrium, 73°F, 50% RH) | 0.40 | % | ISO 62 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 305000 | psi | ISO 527-1 |
| Tensile Stress (Break) | 6530 | psi | ISO 527-2 |
| Tensile Strain (Break) | 28 | % | ISO 527-2 |
| Flexural Modulus | 290000 | psi | ISO 178 |
| Flexural Stress | 10400 | psi | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength | | | ISO 179/1eA |
| -22°F | 3.1 | ft·lb/in ² | |
| 73°F | 3.8 | ft·lb/in ² | |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (66 psi, Annealed) | 311 | °F | ISO 75-2/B |
| Deflection Temperature Under Load (264 psi, Annealed) | 131 | °F | ISO 75-2/A |
| Melting Temperature ² | 437 | °F | ISO 11357-3 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1.0E+13 | ohms | IEC 60093 |
| Volume Resistivity | 1.0E+17 | ohms·cm | IEC 60093 |
| Electric Strength (0.0787 in) | 510 | V/mil | IEC 60243-1 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (0.031 in) | HB | | UL 94 |

Processing Information

| Injection | Nominal Value | Unit |
|------------------------|----------------------|-------------|
| Drying Temperature | 248 to 284 | °F |
| Drying Time | 3.0 to 5.0 | hr |
| Suggested Max Moisture | 0.040 | % |
| Processing (Melt) Temp | 464 to 509 | °F |
| Mold Temperature | 104 to 176 | °F |

