

Zhongfa PBT G-20V

Polybutylene Terephthalate

Yuyao Zhongfa Engineering Plastics Co. Ltd.

Message:

Zhongfa PBT G-20V is a polybutene terephthalate (PBT) material, which contains a 20% glass fiber reinforced material. This product is available in the Asia-Pacific region and is processed by injection molding.

The main features of Zhongfa PBT G-20V are:

flame retardant/rated flame

Flame Retardant

insulation

Creep resistance

Good dimensional stability

Typical application areas include:

Electrical/electronic applications

electrical appliances

Automotive Industry

| General Information | | | |
|----------------------------|---|-------------------|-------------|
| Filler / Reinforcement | Glass fiber reinforced material, 20% filler by weight | | |
| Additive | Flame retardancy | | |
| Features | Good dimensional stability | | |
| | Insulation | | |
| | Impact resistance, good | | |
| | Good creep resistance | | |
| | Good liquidity | | |
| | Thermal stability, good | | |
| | Halogen-free | | |
| | Flame retardancy | | |
| Uses | Electrical/Electronic Applications | | |
| | Electrical appliances | | |
| | Application in Automobile Field | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.50 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 0.50 - 1.0 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | 110 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 3.5 | % | ASTM D638 |
| Flexural Modulus | 6300 | MPa | ASTM D790 |
| Flexural Strength | 165 | MPa | ASTM D790 |
| Thermal | Nominal Value | Unit | Test Method |

| | | | |
|---|---------------|---------|-------------|
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 210 | °C | ASTM D648 |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 1.0E+16 | ohms·cm | ASTM D257 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | V-0 | | UL 94 |
| Additional Information | | | |
| Notched Izod Impact, ASTM D256: 7.5 kJ/m ² | | | |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 115 - 120 | °C | |
| Drying Time | 6.0 - 8.0 | hr | |
| Processing (Melt) Temp | 230 - 265 | °C | |
| Mold Temperature | 60.0 - 100 | °C | |
| Injection Pressure | 70.0 - 100 | MPa | |

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