

LONoy Ionoy 3010

Polycarbonate + PBT

Kingfa

Message:

LONoy Ionoy 3010 is a polycarbonate polybutene terephthalate (PC PBT) material, which contains a glass fiber reinforced material. This product is available in North America or Asia Pacific region. The processing method is injection molding.

The main features of LONoy Ionoy 3010 are:

flame retardant/rated flame

beautiful

good weather resistance

Typical application areas include:

Electrical/electronic applications

Tools

home apps

business/office supplies

| General Information | | | |
|---|---------------------------------|-------------------|-------------|
| Filler / Reinforcement | Glass fiber reinforced material | | |
| Features | Good coloring | | |
| | Good weather resistance | | |
| | Excellent appearance | | |
| Uses | Lawn and Garden Equipment | | |
| | Electrical components | | |
| | Power/other tools | | |
| | Business equipment | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.30 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (23°C) | 0.40 - 0.60 | % | ASTM D955 |
| Water Absorption (23°C, 24 hr) | 0.20 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 95 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ | 75.0 | MPa | ASTM D638 |
| Tensile Elongation ² (Break) | 10 | % | ASTM D638 |
| Flexural Modulus ³ | 3600 | MPa | ASTM D790 |
| Flexural Strength ⁴ | 110 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.20 mm) | 180 | J/m | ASTM D256 |
| Unnotched Izod Impact (23°C, 3.20 mm) | 700 | J/m | ASTM D256 |

| Thermal | Nominal Value | Unit | Test Method |
|---|---------------|---------|-------------|
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, unannealed, 6.40mm | 140 | °C | ASTM D648 |
| 1.8 MPa, unannealed, 6.40mm | 125 | °C | ASTM D648 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1.0E+15 | ohms | ASTM D257 |
| Volume Resistivity | 1.0E+16 | ohms·cm | ASTM D257 |
| Dielectric Strength (1.60 mm) | 30 | kV/mm | ASTM D149 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (1.60 mm) | HB | | UL 94 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 120 | °C | |
| Drying Time | 4.0 - 6.0 | hr | |
| Rear Temperature | 245 - 260 | °C | |
| Middle Temperature | 250 - 270 | °C | |
| Front Temperature | 250 - 270 | °C | |
| Processing (Melt) Temp | 245 - 270 | °C | |
| Mold Temperature | 70.0 - 90.0 | °C | |
| Back Pressure | 0.300 - 0.700 | MPa | |
| Injection instructions | | | |
| Processing Temperature Limit: 280°C Injection Speed: 60 to 100% | | | |
| NOTE | | | |
| 1. | 50 mm/min | | |
| 2. | 50 mm/min | | |
| 3. | 2.0 mm/min | | |
| 4. | 2.0 mm/min | | |

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