

DuPont™ Thermx® PCT

high performance polyester resin

Thermx® FG20GT NC010

Thermx® FG20GT NC010 is a 20% glass fiber reinforced, toughened modified polycyclohexylenedimethylene terephthalate resin suitable for repeated-use food-contact US FDA housewares applications.

| Property | Test Method | Units | Value |
|----------------------------------|----------------|----------------------------------------|-------------------|
| Identification | | | |
| Resin Identification | ISO 1043 | | PCT-IGF20 |
| Part Marking Code | ISO 11469 | | >PCT-IGF20< |
| Mechanical | | | |
| Stress at Break | ISO 527 | MPa (kpsi) | 90 (13.1) |
| Strain at Break | ISO 527 | % | 2.8 |
| Tensile Modulus | ISO 527 | MPa (kpsi) | 5500 (800) |
| Flexural Modulus | ISO 178 | MPa (kpsi) | 4800 (700) |
| Flexural Strength | ISO 178 | MPa (kpsi) | 140 (20.3) |
| Notched Charpy Impact Strength | ISO 179/1eA | kJ/m ² | 8.5 |
| Unnotched Charpy Impact Strength | ISO 179/1eU | kJ/m ² | 50 |
| Thermal | | | |
| Melting Temperature 10°C/min | ISO 11357-1/-3 | °C (°F) | 283 (541) |
| Other | | | |
| Density | ISO 1183 | kg/m ³ (g/cm ³) | 1330 (1.33) |
| Processing | | | |
| Melt Temperature Range | | °C (°F) | 295-310 (565-590) |
| Melt Temperature Optimum | | °C (°F) | 300 (570) |
| Mold Temperature Range | | °C (°F) | 150-175 (300-350) |
| Mold Temperature Optimum | | °C (°F) | 160 (320) |
| Drying Time, Dehumidified Dryer | | h | 4-6 |
| Drying Temperature | | °C (°F) | 120-150 (250-300) |
| Processing Moisture Content | | % | <0.03 |

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.
 ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm.
 Test temperatures are 23°C unless otherwise stated.

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060222/060223

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