



THERMX® CG033

PCT

Thermx® CG033 is a 30% glass fiber reinforced polycyclohexylenedimethylene terephthalate for injection molding.

Note: Initial properties are from CAMPUS information published by Milan 3/2010

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Resin Identification Part Marking Code	PCT-GF30 >PCT-GF30<		ISO 1043 ISO 11469
Rheological properties			
Moulding shrinkage, parallel Moulding shrinkage, normal	0.2 0.8		ISO 294-4, 2577 ISO 294-4, 2577
Typical mechanical properties			
Tensile modulus Tensile stress at break, 5mm/min Tensile strain at break, 50mm/min Flexural modulus Flexural strength Charpy impact strength, 23°C Charpy notched impact strength, 23°C Izod notched impact strength, 23°C Izod impact strength, 23°C Poisson's ratio [C]: Calculated	2 8000 180 50 8 7	MPa %	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 179/1eU ISO 179/1eA ISO 180/1A ISO 180/1U
Thermal properties			
Melting temperature, 10 ° C/min Glass transition temperature, 10 ° C/min Temperature of deflection under load, 1.8 MPa Temperature of deflection under load, 0.45 MPa Coefficient of linear thermal expansion (CLTE), parallel		°C °C °C E-6/K	ISO 11357-1/-3 ISO 11357-1/-3 ISO 75-1/-2 ISO 75-1/-2 ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	85	E-6/K	ISO 11359-1/-2
Thermal conductivity of melt Specific heat capacity of melt		W/(m K) J/(kg K)	ISO 22007-2 ISO 22007-4
Flammability			
Burning Behav. at 1.5mm nom. thickn. Thickness tested Oxygen index		class mm %	IEC 60695-11-10 IEC 60695-11-10 ISO 4589-1/-2

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Electrical properties

Volume resistivity IEC 62631-3-1 >1E13 Ohm.m 1E15 Ohm Surface resistivity IEC 62631-3-2 Electric strength 33 kV/mm IEC 60243-1 Comparative tracking index 560 IEC 60112

Physical/Other properties

1450 kg/m³ ISO 1183 Density

Density of melt 1420 kg/m³

Injection

Ejection temperature 220 °C

Characteristics

Processing Injection Moulding

Delivery form **Pellets**

Special characteristics Chemical resistant, Lead-free soldering resistant

Additional information

Injection molding Preprocessing

> Drying Recommended = Yes Drying Temperature = 95°C

Drying Time, Dehumidified Dryer = 4-6h Processing Moisture Content = <0.03 %

Processing

Melt Temperature Optimum = 300°C Melt Temperature Range = 295-310°C Mold Temperature Optimum = 100°C Mold Temperature Range = 80-120°C

Processing Notes Pre-Drying

Injection molding

Pre-processing:

Drying Recommended = Yes Drying Temperature = 95°C

Drying Time, Dehumidified Dryer = 4-6h Processing Moisture Content = <0.03 %

Processing:

Melt Temperature Optimum = 300°C

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Melt Temperature Range = 295-310 °C Mold Temperature Optimum = 100 °C Mold Temperature Range = 80-120 °C

Automotive

OEM STANDARD

Hyundai MS941-03 Type J-2

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