

THERMX® TE4004

PCT

Thermx® TE4004 NC010 is a 40% glass fiber/glass flake reinforced polycyclohexylenedimethylene terephthalate resin developed for automotive ignition systems applications. PRELIMINARY DATA

Product information

Resin Identification	PCT-GF40	ISO 1043
Part Marking Code	>PCT-GF40<	ISO 11469

Rheological properties

Moulding shrinkage, parallel	0.3 %	ISO 294-4, 2577
Moulding shrinkage, normal	0.9 %	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	9000 MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	105 MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.3 %	ISO 527-1/-2
Flexural modulus	8000 MPa	ISO 178
Flexural strength	160 MPa	ISO 178
Charpy impact strength, 23°C	55 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	8 kJ/m ²	ISO 179/1eA
Poisson's ratio	0.34 ^[C]	

[C]: Calculated

Thermal properties

Melting temperature, 10°C/min	285 °C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	240 °C	ISO 75-1/-2

Electrical properties

Electric strength	38 kV/mm	IEC 60243-1
Comparative tracking index, 100 drops	600	IEC 60112

Physical/Other properties

Density	1510 kg/m ³	ISO 1183
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Characteristics

Processing	Injection Moulding
Delivery form	Pellets
Special characteristics	Chemical resistant