

THERMX® TE4005

33% glass fiber/mineral reinforced PCT

Thermx® TE4005 NC010 is a 33% glass fiber/mineral reinforced polycyclohexylenedimethylene terephthalate resin developed for injection molding applications. It is specifically suitable for high performance demanding ignition applications.
 PRELIMINARY DATA

Rheological properties

Moulding shrinkage range, parallel	0.3 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.5 %	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	9000 MPa	ISO 527-1/-2
Stress at break, 5mm/min	110 MPa	ISO 527-1/-2
Strain at break, 5mm/min	1.8 %	ISO 527-1/-2
Charpy impact strength, 23°C	40 kJ/m ²	ISO 179/1eU

Thermal properties

Melting temperature, 10°C/min	285 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	230 °C	ISO 75-1/-2

Electrical properties

Electric strength	46 kV/mm	IEC 60243-1
Comparative tracking index	600	IEC 60112

Other properties

Density	1450 kg/m ³	ISO 1183
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Injection

Drying Temperature	95 °C	
Drying Time, Dehumidified Dryer	4 - 6 h	
Processing Moisture Content	0.03 %	
Melt Temperature Optimum	300 °C	Internal
Max. mould temperature	120 - 140 °C	

