

# THERMX® TE4005

## 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

#### Product information

Resin Identification	PCT-(GF+MD)3	ISO 1043
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Part Marking Code	>PCT-(GF+MD)33<	ISO 11469

#### Rheological properties

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

#### Typical mechanical properties

Tensile modulus	9000 MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	110 MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.8 %	ISO 527-1/-2
Charpy impact strength, 23 °C	40 kJ/m <sup>2</sup>	ISO 179/1eU
Poisson's ratio	0.34 <sup>[C]</sup>	

[C]: Calculated

#### Thermal properties

Melting temperature, 10 °C/min	285 °C	ISO 11357-1/-3
Temperature 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, 100 drops	600	IEC 60112

#### Physical/Other properties

Density	1450 kg/m <sup>3</sup>	ISO 1183
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#### Injection

Ejection temperature	233 °C
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#### Characteristics

Processing	Injection Moulding
Delivery form	Pellets
Special characteristics	Chemical resistant