

THERMX® TE4004

40% glass fiber/glass flake reinforced

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

Rheological properties

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

Typical mechanical properties

Tensile Modulus	9000 MPa	ISO 527-1/-2
Stress at break, 5mm/min	105 MPa	ISO 527-1/-2
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

Thermal properties

Melting temperature, 10°C/min	285 °C	ISO 11357-1/-3
Temp. 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	600	IEC 60112

Other properties

Density	1510 kg/m ³	ISO 1183
---------	------------------------	----------

Injection

Drying Temperature	95 °C
Drying Time, Dehumidified Dryer	4 - 6 h
Max. mould temperature	120 - 140 °C

