

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			MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min		2.3		ISO 527-1/-2
Flexural modulus Flexural strength		8000	MPa MPa	ISO 178 ISO 178
Charpy impact strength, 23°C			kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	2		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/m³	ISO 1183
Characteristics				
Processing	Injection Moulding			
Delivery form	Pellets			
Special characteristics	Chemical resistant			

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