

Thermx® TE4004

Polycyclohexylenedimethylene Terephthalate
Celanese Corporation

Message:

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

General Information			
Filler / Reinforcement	Glass Fiber\Glass Flake,40% Filler by Weight		
Uses	Automotive Applications		
RoHS Compliance	Contact Manufacturer		
Physical	Nominal Value	Unit	Test Method
Density	1.51	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.90	%	
Flow	0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	105	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.3	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	8000	MPa	ISO 178
Flexural Stress (23°C)	160	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	55	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	240	°C	ISO 75-2/A
Melting Temperature ¹	285	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Electric Strength	38	kV/mm	IEC 60243-1
Injection	Nominal Value	Unit	
Drying Temperature	95.0	°C	
Drying Time	4.0 to 6.0	hr	
Processing (Melt) Temp	295 to 310	°C	
Mold Temperature	120 to 140	°C	
NOTE			
1.	10°C/min		

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