

Thermx® TE4005

Polycyclohexylenedimethylene Terephthalate
Celanese Corporation

Message:

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

General Information			
Filler / Reinforcement	Glass\Mineral,33% Filler by Weight		
RoHS Compliance	Contact Manufacturer		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	110	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.8	%	ISO 527-2/1A/5
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	40	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	230	°C	ISO 75-2/A
Melting Temperature ¹	285	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Electric Strength	46	kV/mm	IEC 60243-1
Injection	Nominal Value	Unit	
Drying Temperature	95.0	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.030	%	
Processing (Melt) Temp	295 to 310	°C	
Mold Temperature	120 to 140	°C	
NOTE			
1.	10°C/min		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

