

Thermx® CGT33

Polycyclohexylenedimethylene Terephthalate
Celanese Corporation

Message:

Thermx® CGT33 is a 30% glass fiber reinforced and toughened polycyclohexylenedimethylene terephthalate for injection molding.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
RoHS Compliance	Contact Manufacturer		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.80	%	
Flow	0.30	%	
Water Absorption			ISO 62
Saturation, 23°C	1.4	%	
Equilibrium, 23°C, 50% RH	0.15	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8400	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	110	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.8	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	7600	MPa	ISO 178
Flexural Stress (23°C)	180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength (23°C)	10	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	250	°C	ISO 75-2/A
Melting Temperature ¹	285	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	4.8E-5	cm/cm/°C	
Transverse	9.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Electric Strength	35	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		UL 94
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	80.0 to 120	°C

NOTE

1.
- 10°C/min

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