

Thermx® CG933

Polycyclohexylenedimethylene Terephthalate
Celanese Corporation

Message:

Thermx® CG933 is a 30% glass fiber reinforced and flame retardant polycyclohexylenedimethylene terephthalate for injection molding.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Flame Retardant		
RoHS Compliance	Contact Manufacturer		
Physical	Nominal Value	Unit	Test Method
Density	1.63	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.80	%	
Flow	0.30	%	
Water Absorption			ISO 62
Saturation, 23°C	0.90	%	
Equilibrium, 23°C, 50% RH	0.15	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	119		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10800	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	114	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.5	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	10000	MPa	ISO 178
Flexural Stress (23°C)	172	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	30	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	270	°C	ISO 75-2/B
1.8 MPa, Unannealed	250	°C	ISO 75-2/A
Melting Temperature ¹	285	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	6.0E-6	cm/cm/°C	
Transverse	1.0E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Electric Strength	33	kV/mm	IEC 60243-1
Comparative Tracking Index	440	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	V-2		
1.50 mm	V-0		
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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