

Thermx® CG943

Polycyclohexylenedimethylene Terephthalate
Celanese Corporation

Message:

Thermx® CG943 is a 40% glass fiber reinforced and flame retardant polycyclohexylenedimethylene terephthalate for injection molding.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.70	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	115	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.3	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	1280	MPa	ISO 178
Flexural Stress (23°C)	178	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	26	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	262	°C	ISO 75-2/A
Melting Temperature ¹	285	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	380	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Oxygen Index	33	%	ISO 4589-2
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			

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Recommended distributors for this material

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