

Thermx® CG923

Polycyclohexylenedimethylene Terephthalate
Celanese Corporation

Message:

Thermx® CG923 is a 20% glass fiber reinforced and flame retardant polycyclohexylenedimethylene terephthalate for injection molding.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Flame Retardant		
RoHS Compliance	Contact Manufacturer		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.57	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.90	%	
Flow	0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	100	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.8	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	7200	MPa	ISO 178
Flexural Stress (23°C)	145	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	30	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	5.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	235	°C	ISO 75-2/A
Melting Temperature ¹	285	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.5E-5	cm/cm/°C	
Transverse	1.1E-4	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	V-0		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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