



Thermx® CG943

Celanese Corporation - Polycyclohexylenedimethylene Terephthalate

Tuesday, November 5, 2019

General Information

Product Description

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

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight		
Additive	• Flame Retardant		
Features	• Flame Retardant		
RoHS Compliance	• Contact Manufacturer		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.70	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.89E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	16700	psi	ISO 527-2/1A/5
Tensile Strain (Break)	1.3	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	186000	psi	ISO 178
Flexural Stress (73°F)	25800	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.3	ft-lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	12	ft-lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	504	°F	ISO 75-2/A
Melting Temperature ²	545	°F	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	380	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-0		UL 94
Oxygen Index	33	%	ISO 4589-2

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	203	°F
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.030	%
Processing (Melt) Temp	563 to 590	°F
Mold Temperature	176 to 248	°F

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Notes

¹ Typical properties: these are not to be construed as specifications.

² 10°C/min
