

## Thermx® CG923

Celanese Corporation - Polycyclohexylenedimethylene Terephthalate

Tuesday, November 5, 2019

	General I	nformation		
Product Description				
Thermx® CG923 is a 20% glass fit	per reinforced and flame retardant poly	cyclohexylenedimethylene to	erephthalate	e for injection molding.
General				
Material Status	Commercial: Active			
Availability	<ul><li> Africa &amp; Middle East</li><li> Asia Pacific</li></ul>	<ul><li>Europe</li><li>Latin America</li></ul>		North America
Filler / Reinforcement	<ul> <li>Glass Fiber, 20% Filler by</li> </ul>	Weight		
Additive	Flame Retardant			
Features	Flame Retardant			
RoHS Compliance	Contact Manufacturer			
Processing Method	Injection Molding			
	ASTM & ISC	O Properties <sup>1</sup>		
Physical		Nominal Value	Unit	Test Method
Density		1.57	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow		0.90	%	
Flow		0.40	%	
Mechanical		Nominal Value	Unit	Test Method
Tensile Modulus		1.16E+6	psi	ISO 527-2/1A
Tensile Stress (Break)		14500	<u>'</u>	ISO 527-2/1A/5
Tensile Strain (Break)		1.8		ISO 527-2/1A/5
Flexural Modulus (73°F)		1.04E+6	•	ISO 178
Flexural Stress (73°F)		21000	•	ISO 178
Impact		Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)		2.4	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)			ft·lb/in²	ISO 179/1eU
Notched Izod Impact Strength (73°F)			ft·lb/in²	ISO 180/1A
Thermal		Nominal Value		Test Method
Heat Deflection Temperature (264 psi, Unannealed)		455	°F	ISO 75-2/A
Melting Temperature <sup>2</sup>		545		ISO 11357-3
CLTE - Flow		8.3E-6		ISO 11359-2
CLTE - Transverse			in/in/°F	ISO 11359-2
Flammability		Nominal Value	Unit	Test Method
Flame Rating (0.06 in)		V-0		UL 94
	Processing	Information		
Injection		Nominal Value		
Drying Temperature		203		
Drying Time		4.0 to 6.0	nr	



Mold Temperature

Suggested Max Moisture

Processing (Melt) Temp

0.030 %

563 to 590 °F

176 to 248 °F

## Thermx® CG923

## Celanese Corporation - Polycyclohexylenedimethylene Terephthalate

## Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 10°C/min

