



Thermx® LED 0201

Celanese Corporation - Polycyclohexylenedimethylene Terephthalate

Tuesday, November 5, 2019

General Information

Product Description

Thermx LED 0201 is a super white reinforced PCT resin highly suitable for LED applications. The material exhibits high heat resistance, high reflectance stability, high thermal stability, low moisture absorption, and high mechanical properties for injection molding.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Thermal Stability	• High Heat Resistance	• Low Moisture Absorption
Uses	• LEDs		
RoHS Compliance	• Contact Manufacturer		
Appearance	• White		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.62	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.90	%	
Flow	0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	909000	psi	ISO 527-2/1A
Tensile Stress (Break)	10600	psi	ISO 527-2/1A/5
Tensile Strain (Break)	1.7	%	ISO 527-2/1A/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	1.5	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	15	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ²	545	°F	ISO 11357-3
CLTE - Flow	1.8E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	5.7E-5	in/in/°F	ISO 11359-2

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	203 to 212	°F
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.030	%
Rear Temperature	554 to 581	°F
Middle Temperature	545 to 572	°F
Front Temperature	545 to 572	°F
Nozzle Temperature	545 to 563	°F
Processing (Melt) Temp	554 to 590	°F
Mold Temperature	212 to 302	°F

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Injection Notes

Zone4 temperature: 285 to 300°C

Notes

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

² 10°C/min