

Thermx® LED 0201S

Polycyclohexylenedimethylene Terephthalate

Celanese Corporation

Message:

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 Information			
Features	Low hygroscopicity		
	Heat resistance, high		
	Thermal stability, good		
Uses	LEDs		
RoHS Compliance	Contact manufacturer		
Appearance	White		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.62	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction	0.90	%	ISO 294-4
Flow direction	0.30	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6270	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	73.0	MPa	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 (23°C)	3.2	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	32	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ¹	285	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow	3.2E-5	cm/cm/°C	ISO 11359-2
Lateral	1.0E-4	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	95.0 - 100	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.030	%	
Rear Temperature	290 - 305	°C	
Middle Temperature	285 - 300	°C	
Front Temperature	285 - 300	°C	

Nozzle Temperature	285 - 295	°C
Processing (Melt) Temp	290 - 310	°C
Mold Temperature	100 - 150	°C
Injection instructions		
Zone 4 Temperature: 285 to 300°C		
NOTE		
1.	10°C/min	

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Recommended distributors for this material

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