

Thermx® TE3002

Celanese Corporation - Polycyclohexylenedimethylene Terephthalate

Tuesday, November 5, 2019

	General I	nformation	
Product Description			
Thermx® TE3002 is a 30% glas	s fiber reinforced, flame retardant, black	high performance polyester resir	n for injection molding.
General			
Material Status	Commercial: Active		
Availability	Africa & Middle East	• Europe	North America
	 Asia Pacific 	 Latin America 	North America
Filler / Reinforcement	 Glass Fiber, 30% Filler by 	Weight	
Additive	Flame Retardant		
Features	Flame Retardant	Flame Retardant	
RoHS Compliance	 Contact Manufacturer 		
Appearance	Black		
Processing Method	Injection Molding		

ASTM & ISO Properties ¹				
Physical	Nominal Value	Unit	Test Method	
Density	1.65	g/cm³	ISO 1183	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	1.45E+6	psi	ISO 527-2/1A	
Tensile Stress (Break)	14500	psi	ISO 527-2/1A/5	
Tensile Strain (Break)	1.2	%	ISO 527-2/1A/5	
Flexural Modulus (73°F)	1.52E+6	psi	ISO 178	
Flexural Stress (73°F)	21800	psi	ISO 178	
Impact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength (73°F)	3.3	ft·lb/in²	ISO 179/1eA	
Charpy Unnotched Impact Strength (73°F)	9.5	ft·lb/in²	ISO 179/1eU	
Thermal	Nominal Value	Unit	Test Method	
Heat Deflection Temperature (264 psi, Unannealed)	464	°F	ISO 75-2/A	
Flammability	Nominal Value	Unit	Test Method	
Flame Rating (0.031 in)	V-0		UL 94	

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			

Notes



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