

Celstran® PBT-GF40-08

Polybutylene Terephthalate

Celanese Corporation

Message:

40% Long Glass Fiber Reinforced PBT

General Information			
Filler / Reinforcement	Long glass fiber, 40% filler by weight		
RoHS Compliance	Contact manufacturer		
Physical	Nominal Value	Unit	Test Method
Density	1.61	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13600	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	180	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.9	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	12700	MPa	ISO 178
Flexural Stress (23°C)	270	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	32	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	226	°C	ISO 75-2/B
1.8 MPa, not annealed	225	°C	ISO 75-2/A
Linear thermal expansion coefficient			ISO 11359-2
Flow	1.6E-5	cm/cm/°C	ISO 11359-2
Lateral	8.7E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	120 - 140	°C	
Drying Time	2.0 - 4.0	hr	
Hopper Temperature	20 - 50	°C	
Processing (Melt) Temp	280 - 300	°C	
Mold Temperature	80 - 90	°C	
Injection instructions			
Feed Temperature: 20 to 50°C			

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Recommended distributors for this material

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