



Celstran® PBT-GF40-08

Celanese Corporation - Polybutylene Terephthalate

Monday, November 4, 2019

General Information

Product Description

40% Long Glass Fiber Reinforced PBT

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Long Glass Fiber, 40% Filler by Weight		
RoHS Compliance	• Contact Manufacturer		

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.61	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.97E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	26100	psi	ISO 527-2/1A/5
Tensile Strain (Break)	1.9	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	1.84E+6	psi	ISO 178
Flexural Stress (73°F)	39200	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	15	ft-lb/in ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	439	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	437	°F	ISO 75-2/A
CLTE - Flow	8.9E-6	in/in/°F	ISO 11359-2
CLTE - Transverse	4.8E-5	in/in/°F	ISO 11359-2

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	248 to 284	°F
Drying Time	2.0 to 4.0	hr
Hopper Temperature	68 to 122	°F

Injection Notes

Feeding zone temperature: 20 to 50°C

Notes

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