



Celstran® PBT-CF40-08

Celanese Corporation - Polybutylene Terephthalate

Monday, November 4, 2019

General Information

Product Description

40% long carbon fiber reinforced PBT

General

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

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.47	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4.64E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	31900	psi	ISO 527-2/1A/5
Tensile Strain (Break)	0.85	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	3.99E+6	psi	ISO 178
Flexural Stress (73°F)	54400	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	7.6	ft-lb/in ²	ISO 179/1eA

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	248 to 284	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Nozzle Temperature	509 to 545	°F
Processing (Melt) Temp	509 to 545	°F
Mold Temperature	194 to 212	°F

Injection Notes

Feeding zone temperature: 20 to 50°C

Notes

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