

Celstran® PEHD-GF40-01

Celanese Corporation - High Density Polyethylene

Sunday, November 17, 2019

General Information

Product Description

40% long fiber glass reinforced, High Density Polyethylene

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 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8250	MPa	ISO 527-2/1A
Tensile Stress (Break)	120	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.3	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	7500	MPa	ISO 178
Flexural Stress (23°C)	180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	40	kJ/m ²	ISO 179/1eA

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	90 to 100	°C
Drying Time	2.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	200 to 210	°C
Middle Temperature	210 to 220	°C
Front Temperature	220 to 230	°C
Nozzle Temperature	230 to 240	°C
Processing (Melt) Temp	230 to 240	°C
Mold Temperature	40 to 70	°C

Injection Notes

Feeding zone temperature: 20 to 50°C
Zone4 temperature: 230 to 240°C

Notes

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