



Celstran® PEHD-GF40-01

Celanese Corporation - High Density Polyethylene

Tuesday, November 5, 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 Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.20E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	17400	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.3	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	1.09E+6	psi	ISO 178
Flexural Stress (73°F)	26100	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	19	ft-lb/in ²	ISO 179/1eA

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	194 to 212	°F
Drying Time	2.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	392 to 410	°F
Middle Temperature	410 to 428	°F
Front Temperature	428 to 446	°F
Nozzle Temperature	446 to 464	°F
Processing (Melt) Temp	446 to 464	°F
Mold Temperature	104 to 158	°F

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.