



Celstran® PP-GF40-02-Black

Celanese Corporation - Polypropylene

Tuesday, November 5, 2019

General Information

Product Description

40% long strand glass fiber reinforced polypropylene

General

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

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.33E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	18900	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.0	%	ISO 527-2/1A/5
Flexural Modulus			ISO 178
73°F	1.31E+6	psi	
176°F	928000	psi	
Flexural Stress			ISO 178
73°F	29000	psi	
176°F	17400	psi	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	14	ft-lb/in ²	
73°F	12	ft-lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	29	ft-lb/in ²	
73°F	30	ft-lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	306	°F	ISO 75-2/A
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.13 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	194 to 212	°F
Drying Time	2.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	410 to 446	°F
Middle Temperature	446 to 464	°F
Front Temperature	464 to 482	°F
Nozzle Temperature	464 to 482	°F

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Injection	Nominal Value	Unit
Processing (Melt) Temp	446 to 518	°F
Mold Temperature	104 to 158	°F
Back Pressure	< 435	psi

Injection Notes

Feeding zone temperature: 20 to 50°C

Zone4 temperature: 250 to 260°C

Notes

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