Celstran® PP-GF50-02-Black

Celanese Corporation - Polypropylene

Tuesday, November 5, 2019

General Information

Product Description

50% long strand glass fiber chemically coupled polypropylene, Black

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Long Glass Fiber, 50% Filler by Weight		
Features	• Chemically Coupled		
RoHS Compliance	• Contact Manufacturer		
Appearance	• Black		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.33	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1.62E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	18100	psi	ISO 527-2/1A/5
Tensile Strain (Break)	1.8	%	ISO 527-2/1A/5
Flexural Modulus			ISO 178
73°F	1.65E+6	psi	
176°F	1.16E+6	psi	
Flexural Stress			ISO 178
73°F	31200	psi	
176°F	17400	psi	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	12	ft·lb/in²	
73°F	12	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	25	ft·lb/in²	
73°F	26	ft·lb/in²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (264 psi, Unannealed)	316	°F	ISO 75-2/A

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	194 to 212	°F
Drying Time	2.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	428 to 446	°F
Middle Temperature	428 to 446	°F
Front Temperature	446 to 482	°F
Nozzle Temperature	446 to 482	°F
Processing (Melt) Temp	446 to 482	°F

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Injection	Nominal Value	Unit
Mold Temperature	104 to 158	°F

Injection Notes

Feeding zone temperature: 20 to 50°C
Zone4 temperature: 230 to 250°C

Notes

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