



Celstran® PPS-GF50-01 AD3002 Black

Celanese Corporation - Polyphenylene Sulfide

Tuesday, November 5, 2019

General Information

Product Description

50% long strand glass fiber reinforced polyphenylene sulfide

General

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

ASTM & ISO Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density	1.72	g/cm ³	ISO 1183
Mechanical			
Tensile Modulus	2.76E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	23900	psi	ISO 527-2/1A/5
Tensile Strain (Break)	1.0	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	2.68E+6	psi	ISO 178
Flexural Stress (73°F)	40600	psi	ISO 178
Impact			
Charpy Notched Impact Strength (73°F)	13	ft·lb/in ²	ISO 179/1eA
Thermal			
Heat Deflection Temperature (264 psi, Unannealed)	540	°F	ISO 75-2/A

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	266 to 284	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Hopper Temperature	158 to 176	°F
Rear Temperature	545 to 563	°F
Middle Temperature	554 to 572	°F
Front Temperature	563 to 581	°F
Nozzle Temperature	554 to 572	°F
Processing (Melt) Temp	572 to 590	°F
Mold Temperature	284 to 320	°F

Injection Notes

Feeding zone temperature: 20 to 50°C
Zone4 temperature: 300 to 310°C

Notes

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

UL and the UL logo are trademarks of UL LLC © 2019. All Rights Reserved.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.