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]

Physical	Nominal Value	Unit	Test Method
Density	1.72	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
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	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	13	ft·lb/in²	ISO 179/1eA
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (264 psi, Unannealed)	540	°F	ISO 75-2/A

Processing Information

Injection	Nominal Value	Unit
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.