



Celstran® PPS-GF40-01 AD3002 Black

Celanese Corporation - Polyphenylene Sulfide

Tuesday, November 5, 2019

General Information

Product Description

40% long strand fiber glass reinforced polyphenylene sulfide

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	1.65	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2.30E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	22500	psi	ISO 527-2/1A/5
Tensile Strain (Break)	1.1	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	2.16E+6	psi	ISO 178
Flexural Stress (73°F)	36000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	10	ft-lb/in ²	ISO 179/1eA

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.