

Celstran® PPS-CF50-02 AF 3002 Natural

Polyphenylene Sulfide
Celanese Corporation

Message:

Celstran PPS-CF 50-02 is a 50% long carbon fiber Polyphenylene Sulfide. This material imparts excellent impact and extremely high modulus properties that exceed that of short carbon fiber PPS.

General Information			
Filler / Reinforcement	Long carbon fiber, 50% filler by weight		
Features	Rigidity, high		
	Impact resistance, good		
RoHS Compliance	Contact manufacturer		
Physical	Nominal Value	Unit	Test Method
Density	1.54	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	41700	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	155	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	0.40	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	39200	MPa	ISO 178
Flexural Stress (23°C)	343	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.4	kJ/m ²	ISO 179/1eA
Injection	Nominal Value	Unit	
Drying Temperature	130 - 140	°C	
Drying Time	3.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	70.0 - 80.0	°C	
Rear Temperature	295 - 305	°C	
Middle Temperature	315 - 345	°C	
Front Temperature	315 - 345	°C	
Nozzle Temperature	315 - 345	°C	
Processing (Melt) Temp	315 - 335	°C	
Mold Temperature	140 - 160	°C	
Injection Pressure	50.0 - 100	MPa	
Holding Pressure	30.0 - 70.0	MPa	
Back Pressure	0.00 - 3.00	MPa	
Injection instructions			

Feed Temperature: 20 to 50°CZone 4 Temperature: 315 to 345°CManifold Temperature: 305 to 315°C

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Recommended distributors for this material

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