

Celstran® PPS-CF30-01

Polyphenylene Sulfide

Celanese Corporation

Message:

Celstran PPS-CF30-01 is a 30% long carbon fiber reinforced 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, 30% filler by weight		
Features	Rigidity, high		
	Impact resistance, good		
RoHS Compliance	Contact manufacturer		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	31800	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	203	MPa	ISO 527-2/1A/50
Tensile Strain (Break)	0.72	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	30100	MPa	ISO 178
Flexural Stress (23°C)	339	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Linear thermal expansion coefficient			ISO 11359-2
Flow	3.7E-4	cm/cm/°C	ISO 11359-2
Lateral	3.0E-3	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	110 - 130	°C	
Drying Time	3.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	70.0 - 80.0	°C	
Rear Temperature	285 - 295	°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 instructions			

Zone 4 Temperature: 315 to 345°C Feed Temperature: 20 to 50°C

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

