

Celstran® PPS-CF40-01

Polyphenylene Sulfide

Celanese Corporation

Message:

Celstran PPS-CF 40-01 is a 40% 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, 40% filler by weight		
Features	Super rigidity		
	Impact resistance, good		
RoHS Compliance	Contact manufacturer		
Appearance	Natural color		
Physical	Nominal Value	Unit	Test Method
Density	1.49	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	37300	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	185	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	0.57	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	34900	MPa	ISO 178
Flexural Stress (23°C)	343	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Linear thermal expansion coefficient			ISO 11359-2
Flow	2.3E-4	cm/cm/°C	ISO 11359-2
Lateral	2.8E-3	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	120 - 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 - 150	MPa	
Injection Rate	Moderate		
Holding Pressure	50.0 - 150	MPa	

Back Pressure	0.00 - 3.00	MPa
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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

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



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