

Badatron® PPS CF40

Polyphenylene Sulfide

Bada AG

Message:

PPS-CF40, High strength and dimension stable 40% carbon fibres reinforced injection moulding grade

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 40% filler by weight		
Features	High strength		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.47	g/cm ³	ISO 1183
Water Absorption (Saturation, 23°C)	0.030	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	33000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	185	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	0.60	%	ISO 527-2/5
Flexural Modulus ¹ (23°C)	24000	MPa	ISO 178
Flexural Stress ² (23°C, 4.00 mm)	235	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (23°C)	6.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ⁴ (23°C)	25	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵ (1.8 MPa, Unannealed, 4.00 mm)	263	°C	ISO 75-2/A
Melting Temperature (DSC) ⁶	295	°C	ISO 3146
Injection	Nominal Value	Unit	
Drying Temperature	140	°C	
Drying Time	2.0 - 4.0	hr	
Processing (Melt) Temp	305 - 330	°C	
Mold Temperature	150 - 180	°C	
NOTE			
1.	1.0 mm/min		
2.	80x10x4 mm		
3.	80x10x4 mm		
4.	80x10x4 mm		
5.	110x10x4 mm		
6.	Compound for molding, 10k/min		

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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

