

Badatron® PPS CF30

Polyphenylene Sulfide

Bada AG

Message:

High strength and dimensionally stable 30% carbon fibres reinforced injection moulding grade

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 30% filler by weight		
Features	High strength		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.40	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	21000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	170	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	1.2	%	ISO 527-2/5
Flexural Stress ¹ (23°C, 4.00 mm)	235	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ² (23°C)	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ³ (23°C)	25	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, unannealed, 4.00mm	285	°C	ISO 75-2/B
1.8 MPa, not annealed, 4.00mm	265	°C	ISO 75-2/A
Melting Temperature (DSC) ⁵	295	°C	ISO 3146
Thermal Conductivity	0.60	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁶ (1.00 mm)	< 1.0E+3	ohms	IEC 60093
Volume Resistivity ⁷ (1.00 mm)	< 1.0E+3	ohms · cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.8 mm	V-0		UL 94
1.6 mm	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100 - 140	°C	
Drying Time	2.0 - 4.0	hr	
Processing (Melt) Temp	310 - 340	°C	
Mold Temperature	130 - 180	°C	
NOTE			

1.	80x10x4 mm
2.	80x10x4 mm
3.	80x10x4 mm
4.	110x10x4 mm
5.	Compound for molding, 10k/min
6.	80x80x1 mm
7.	80x80x1 mm

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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

