

Badatron® PPS CF20

Polyphenylene Sulfide

Bada AG

Message:

High strength PPS injection moulding grade , 20% carbon fibers, good electrical conductivity

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 20% filler by weight		
Features	Conductivity		
	High strength		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.39	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	18000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	170	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	1.0	%	ISO 527-2/5
Flexural Stress ¹ (23°C, 4.00 mm)	240	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength ² (23°C)	35	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC) ³	295	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁴ (1.00 mm)	< 1.0E+3	ohms	IEC 60093
Volume Resistivity ⁵ (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.	Compound for molding, 10k/min		

4.	80x80x1 mm
5.	80x80x1 mm

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