

Badatron® PPS GF40

Polyphenylene Sulfide

Bada AG

Message:

PPS-GF40, 40% glass fibres reinforced injection moulding grade

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.65	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	15800	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	165	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	1.2	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹ (23°C)	4.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ² (23°C)	30	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ³ (1.8 MPa, Unannealed, 4.00 mm)	255	°C	ISO 75-2/A
Melting Temperature (DSC) ⁴	280	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁵ (1.00 mm)	1.0E+16	ohms	IEC 60093
Volume Resistivity ⁶ (1.00 mm)	1.0E+15	ohms·cm	IEC 60093
Dielectric Strength ⁷ (1.00 mm)	17	kV/mm	IEC 60243-1
Relative Permittivity ⁸ (1.00 mm, 1 MHz)	3.80		IEC 60250
Dissipation Factor ⁹ (1.00 mm, 1 MHz)	2.0E-3		IEC 60250
Comparative Tracking Index ¹⁰ (1.00 mm)	125	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.8 mm	V-0		UL 94
1.6 mm	V-0		UL 94
Glow Wire Flammability Index			IEC 60695-2-12
0.75 mm	960	°C	IEC 60695-2-12
1.6 mm	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
0.75 mm	960	°C	IEC 60695-2-13
1.6 mm	960	°C	IEC 60695-2-13
Additional Information			

Maximum Service Temperature, IEC 216, some hours: 260°CMaximum Service Temperature, IEC 216, 20000 hours: 220°C

Injection	Nominal Value	Unit
Drying Temperature	140	°C
Drying Time	3.0 - 4.0	hr
Processing (Melt) Temp	300 - 340	°C
Mold Temperature	140 - 180	°C

NOTE

1.	80x10x4 mm
2.	80x10x4 mm
3.	110x10x4 mm
4.	Compound for molding, 10k/min
5.	80x80x1 mm
6.	80x80x1 mm
7.	80x80x1 mm
8.	80x80x1 mm
9.	80x80x1 mm
10.	80x80x1 mm

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