

Badatron® PPS GF30 TF15

Polyphenylene Sulfide

Bada AG

Message:

PPS - (GF30+SD15), 30% glasfibres and PTFE filled tribological injection moulding grade; Low friction and wear at high maximum service temperature

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
	Organic filler, 15% filler by weight		
Features	Low friction coefficient		
	Thermal stability, good		
Processing Method	Injection molding		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	9000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	70.0	MPa	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹ (23°C)	30	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ² (4.00 mm)	90.0	J/m	ASTM D785
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
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
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

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