

Badatech HT® PEEK 3111 GF 30

Polyetheretherketone

Bada AG

Message:

High performance polymer, 30% glass fibre filled Polyetheretherketon (PEEK), high viscosity, for thermally and chemically stressed parts

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Good chemical resistance		
	Thermal stability, good		
	Viscosity, High		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.50	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	11500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	170	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹ (23°C)	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ² (4.00 mm)	60.0	J/m	ASTM D785
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ³ (1.8 MPa, Unannealed, 4.00 mm)	328	°C	ISO 75-2/A
Melting Temperature (DSC) ⁴	343	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity ⁵ (1.00 mm)	> 1.0E+15	ohms·cm	IEC 60093
Dielectric Strength ⁶ (1.00 mm)	22	kV/mm	IEC 60243-1
Comparative Tracking Index ⁷ (1.00 mm)	150	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm)	V-0		UL 94
Glow Wire Flammability Index (2.0 mm)	960	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	150	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	360 - 390	°C	
Mold Temperature	180 - 200	°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

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