

Badatech HT® PEEK

Polyetheretherketone

Bada AG

Message:

High performance polymer, Polyetheretherketon (PEEK) for thermally and chemically stressed parts

General Information			
Features	Good chemical resistance		
	Thermal stability, good		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.30	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3800	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	95.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 50°C)	4.7	%	ISO 527-2/23
Flexural Stress ¹ (23°C, 4.00 mm)	115	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ² (23°C)	7.5	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ³ (1.8 MPa, Unannealed, 4.00 mm)	155	°C	ISO 75-2/A
Melting Temperature (DSC) ⁴	340	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁵ (1.00 mm)	> 1.0E+15	ohms	IEC 60093
Volume Resistivity ⁶ (1.00 mm)	> 1.0E+15	ohms · cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (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
Injection	Nominal Value	Unit	
Drying Temperature	150	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	355 - 375	°C	
Mold Temperature	100 - 200	°C	
NOTE			
1.	80x10x4 mm		
2.	80x10x4 mm		
3.	110x10x4 mm		

4.	Compound for molding, 10k/min
5.	80x80x1 mm
6.	80x80x1 mm

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