

Badatech HT® PEEK CF10/GR10/TF10

Polyetheretherketone

Bada AG

Message:

10% carbon fibres filled Polyetheretherketon (PEEK) for tribological applications

General Information			
Filler / Reinforcement	Mineral filler, 10% filler by weight		
	Carbon fiber reinforced material, 10% filler by weight		
Additive	PTFE lubricant (10%)		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.44	g/cm ³	ISO 1183
Water Absorption (Saturation, 23°C)	< 0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	13000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	155	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.0	%	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)	55.0	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
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	120	°C	
Drying Time	2.0 - 4.0	hr	
Processing (Melt) Temp	380 - 390	°C	
Mold Temperature	170 - 200	°C	
NOTE			
1.	80x10x4 mm		
2.	80x10x4 mm		
3.	110x10x4 mm		

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