

Badadur® PBT8 GF/GK30

Polybutylene Terephthalate

Bada AG

Message:

Medium viscosity, 30 % flafibres and glass beads reinforced standard injection moulding grade with very good mechanical properties

General Information			
Filler / Reinforcement	Glass Bead\Glass Fiber,30% Filler by Weight		
Features	Medium Viscosity		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.53	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	0.37	%	
Equilibrium, 23°C, 50% RH	0.13	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C)	7500	MPa	ISO 527-2/1
Tensile Stress ² (Break, 23°C)	100	MPa	ISO 527-2/50
Tensile Strain ³ (Break)	3.0	%	ISO 527-2
Flexural Stress ⁴ (23°C)	155	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁵			ISO 179/1eA
-30°C	7.0	kJ/m ²	
23°C	7.0	kJ/m ²	
Charpy Unnotched Impact Strength ⁶			
-30°C	45	kJ/m ²	ISO 179/1U
23°C	45	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength ⁷			ISO 180
-30°C	6.0	kJ/m ²	
23°C	6.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁸			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	185	°C	ISO 75-2/A
Melting Temperature (DSC) ⁹	223	°C	ISO 3146
Maximum Service Temperature			IEC 216
20000 hrs	135	°C	
somehours	165	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ¹⁰	> 1.0E+14	ohms	IEC 60093

Volume Resistivity ¹¹	> 1.0E+16	ohms·cm	IEC 60093
Electric Strength ¹²	25	kV/mm	IEC 60243-1
Relative Permittivity ¹³ (1 MHz)	3.60		IEC 250
Comparative Tracking Index	375	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm ¹⁴	HB		
1.60 mm ¹⁵	HB		
Injection	Nominal Value	Unit	
Drying Temperature	110 to 130	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	245 to 265	°C	
Mold Temperature	60.0 to 100	°C	

NOTE

1.	Test Specimen accordng to ISO 3167, Type A
2.	Test Specimen accordng to ISO 3167, Type A
3.	Test Specimen accordng to ISO 3167, Type A
4.	80x10x4 mm
5.	80x10x4 mm
6.	80x10x4 mm
7.	80x10x4 mm
8.	110x10x4 mm
9.	10 K/min, Compound for Moulding
10.	80x80x1 mm
11.	80x80x1 mm
12.	80x80x1 mm
13.	80x80x1 mm
14.	125x13x.8
15.	125x13x1.6

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