

Badadur® PBT8 GF30

Polybutylene Terephthalate

Bada AG

Message:

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

General Information			
Filler / Reinforcement	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)	10000	MPa	ISO 527-2
Tensile Stress ² (Break, 23°C)	140	MPa	ISO 527-2/5
Tensile Strain ³ (Break, 23°C)	2.6	%	ISO 527-2/5
Flexural Stress ⁴ (23°C)	210	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁵			ISO 179/1eA
-30°C	10	kJ/m ²	
23°C	11	kJ/m ²	
Charpy Unnotched Impact Strength ⁶			
23°C	60	kJ/m ²	ISO 179/1eU
23°C	55	kJ/m ²	ISO 179/2eU
Notched Izod Impact Strength ⁷			ISO 180/1A
-30°C	9.0	kJ/m ²	
23°C	10	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	205	°C	ISO 75-2/A
Melting Temperature (DSC) ⁹	223	°C	ISO 3146
CLTE ¹⁰			DIN 53752
Flow	3.5E-5	cm/cm/°C	
Transverse	9.5E-5	cm/cm/°C	
Maximum Service Temperature			IEC 216
20000 hrs	140		

some hours	170	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ¹¹	> 1.0E+14	ohms	IEC 60093
Volume Resistivity ¹²	> 1.0E+16	ohms·cm	IEC 60093
Electric Strength	29	kV/mm	IEC 60243-1
Relative Permittivity ¹³ (1 MHz)	4.10		IEC 60250
Dissipation Factor ¹⁴ (1 MHz)	0.020		IEC 60250
Comparative Tracking Index	450	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm ¹⁵	HB		
1.60 mm ¹⁶	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.	>=10x10x4 mm		
11.	80x80x1 mm		
12.	80x80x1 mm		
13.	80x80x1 mm		
14.	80x80x1 mm		
15.	125x13x.8 mm		
16.	125x13x1.6 mm		

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