

Badadur® PBT8 GF30 TM-Z2

Polybutylene Terephthalate

Bada AG

Message:

Medium viscosity, 30 % GF reinforced injection moulding grade with very good mechanical properties, high toughness

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Toughness		
	High Viscosity		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.49	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	0.30	%	
Equilibrium, 23°C, 50% RH	0.13	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C)	7000	MPa	ISO 527-2/1
Tensile Stress ² (Break)	105	MPa	ISO 527-2/5
Tensile Strain ³ (Break)	4.5	%	ISO 527-2/5
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	13	kJ/m ²	
23°C	13	kJ/m ²	
Charpy Unnotched Impact Strength ⁶			ISO 179/1eU
-30°C	70	kJ/m ²	
23°C	75	kJ/m ²	
Notched Izod Impact Strength ⁷			
-30°C	11	kJ/m ²	ISO 180
23°C	12	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁸			
0.45 MPa, Unannealed	205	°C	ISO 75-2/B
1.8 MPa, Unannealed	190	°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	1.2E-4	cm/cm/°C	

Maximum Service Temperature			IEC 216
20000 hrs	135	°C	
some hours	165	°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 ¹³	28	kV/mm	IEC 60243-1
Relative Permittivity ¹⁴ (1 MHz)	4.00		IEC 60250
Dissipation Factor ¹⁵ (1 MHz)	0.020		IEC 60250
Comparative Tracking Index	500	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm ¹⁶	HB		
1.60 mm ¹⁷	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.	80x80x1 mm		
16.	125x13x0.8		
17.	125x13x1.6		

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