

Badadur® PBT8 GF30 FR HF

Polybutylene Terephthalate

Bada AG

Message:

Medium viscosity, 30 % GF reinforced, non halogenated flame retardent injection moulding grade with very good mechanical properties

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
	Medium Viscosity		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	0.32	%	
Equilibrium, 23°C, 50% RH	0.13	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	7500	MPa	ISO 527-2/1
Tensile Stress ² (Break, 23°C)	100	MPa	ISO 527-2/5
Tensile Strain ³ (Break, 23°C)	2.8	%	ISO 527-2/5
Flexural Stress ⁴ (23°C)	170	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁵			
-30°C	7.0	kJ/m ²	ISO 179
23°C	7.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ⁶			
-30°C	40	kJ/m ²	
23°C	40	kJ/m ²	
	6.0		
Notched Izod Impact Strength ⁷ (23°C)	7.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁸			
0.45 MPa, Unannealed	215	°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			
Flow	4.2E-5	cm/cm/°C	DIN 53752
Transverse	1.0E-4	cm/cm/°C	DIN 53754
Maximum Service Temperature			IEC 216
20000 hrs	135	°C	
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 ¹³	28	kV/mm	IEC 60243-1
Relative Permittivity ¹⁴ (1 MHz)	3.60		IEC 60250
Dissipation Factor ¹⁵ (1 MHz)	0.017		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating ¹⁶ (1.60 mm)	V-0		UL 94
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 moulding		
10.	>=10x10x4 mm		
11.	80x80x1 mm		
12.	80x80x1 mm		
13.	80x80x1 mm		
14.	80x80x1 mm		
15.	80x80x1 mm		
16.	125x13x1.6 mm		

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