

Badadur® PBT8 FR HF

Polybutylene Terephthalate

Bada AG

Message:

Medium viscosity, non halogenated flame retardent standard injection moulding grade with very good mechanical properties

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
	Medium Viscosity		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	0.42	%	
Equilibrium, 23°C, 50% RH	0.17	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C)	2700	MPa	ISO 527-2/1
Tensile Stress ² (Break, 23°C)	45.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C, 5.00 mm)	4.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³			ISO 179/1eA
-30°C	3.0	kJ/m ²	
23°C	5.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, Unannealed	160	°C	ISO 75-2/B
1.8 MPa, Unannealed	60.0	°C	ISO 75-2/A
Melting Temperature (DSC) ⁵	223	°C	ISO 3146
CLTE			DIN 53752
Flow ⁶	1.3E-4	cm/cm/°C	
Transverse ⁷	1.3E-4	cm/cm/°C	
Maximum Service Temperature			IEC 216
20000 hrs	130	°C	
some hours	155	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁸	1.0E+14	ohms	IEC 60093
Volume Resistivity ⁹	1.0E+16	ohms · cm	IEC 60093

Relative Permittivity ¹⁰ (1 MHz)	3.50		IEC 60250
Dissipation Factor ¹¹ (1 MHz)	0.018		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating ¹² (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	240 to 260	°C	
Mold Temperature	60.0 to 100	°C	
NOTE			

1.	Test Specimen according to ISO 3167, Type A
2.	Test Specimen according to ISO 3167, Type A
3.	80x10x4 mm
4.	110x10x4
5.	10 K/min, Compound for moulding
6.	>= 10x10x4
7.	> = 10x10x4
8.	80x80x1 mm
9.	80x80x1 mm
10.	80x80x1 mm
11.	80x80x1 mm
12.	125x13x1.6 mm

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