

Badadur® PBT8 TM-Z2

Polybutylene Terephthalate

Bada AG

Message:

Easy flowing standard injection moulding grade with very good mechanical properties, very high toughness

General Information			
Features	Good Flow		
	Ultra High Toughness		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	0.42	%	
Equilibrium, 23°C, 50% RH	0.18	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C)	1800	MPa	ISO 527-2/1
Tensile Stress ² (Yield, 23°C)	35.0	MPa	ISO 527-2/50
Tensile Strain ³ (Yield, 23°C)	5.0	%	ISO 527-2/50
Nominal Tensile Strain at Break ⁴ (23°C)	> 50	%	ISO 527-2/50
Flexural Stress ⁵ (23°C)	70.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength ⁶			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁷			
0.45 MPa, Unannealed	110	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	°C	ISO 75-2/A
Melting Temperature (DSC) ⁸	223	°C	ISO 3146
CLTE ⁹			DIN 53752
Flow : 4.00 mm	1.5E-4	cm/cm/°C	
Transverse : 4.00 mm	1.5E-4	cm/cm/°C	
Maximum Service Temperature			IEC 216
--	10020000	°C	
some hours	140	°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
Relative Permittivity ¹² (1 MHz)	3.30		IEC 60250
Dissipation Factor ¹³ (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 ¹⁴	HB		
1.60 mm ¹⁵	HB		
Injection	Nominal Value	Unit	
Drying Temperature	110 to 120	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	240 to 260	°C	
Mold Temperature	60.0 to 90.0	°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.	Test Specimen accordng to ISO 3167, Type A
5.	80x10x4 mm
6.	80 x 10 x 4 mm
7.	110x10x4mm
8.	Compound for moulding
9.	> = 10x10x4 mm
10.	80x80x1 mm
11.	80x80x1 mm
12.	80x80x1 mm
13.	80x80x1 mm
14.	125x13x.8
15.	125x13x1.6

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