Badadur® PBT8 TM-Z1

Polybutylene Terephthalate

Bada AG

Message:

Medium viscosity standard injection moulding grade with very good mechanical properties, high toughness

General Information			
Features	Good Toughness Medium Viscosity		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.24	g/cm³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	0.45	%	
Equilibrium, 23°C, 50% RH	0.19	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1] (23°C)	1900	MPa	ISO 527-2/1
Tensile Stress [2] (Yield, 23°C)	45.0	MPa	ISO 527-2/50
Tensile Strain [3] (Yield, 23°C)	4.0	%	ISO 527-2/50
Nominal Tensile Strain at Break [4] (23°C)	> 50	%	ISO 527-2/50
Flexural Stress [5] (23°C)	75.0	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
20000 hrs	110	°C	
some hours	145	°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.	Test Specimen accordng to ISO 3167, Type A
6.	80 x 10 x 4 mm
7.	110x10x4mm
8.	10 K/min, Compound for moulding
9.	>=10x10x4
10.	80x80x1 mm
11.	80x80x1 mm
12.	80x80x1 mm
13.	80x80x1 mm
14.	125x13x.8
15.	125x13x1.6

Recommended distributors for this material

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