Badadur® PBT8 TM-Z3

Polybutylene Terephthalate

Bada AG

Message:

Medium viscosity, standard injection moulding grade with good mechanical properties

General Information			
Features	Medium viscosity		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.18	g/cm³	ISO 1183
Water Absorption			ISO 62
Saturated, 23°C	0.42	%	ISO 62
Equilibrium, 23°C, 50% RH	0.18	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1] (23°C)	1720	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		ISO 179/1eU
23°C	No Break		ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed [7]	110	°C	ISO 75-2/B
1.8 MPa, not annealed [8]	45.0	°C	ISO 75-2/A
Melting Temperature (DSC) [9]	223	°C	ISO 3146
Linear thermal expansion coefficient [10]			ISO 11359-2
Flow	1.5E-4	cm/cm/°C	ISO 11359-2
Lateral	1.5E-4	cm/cm/°C	ISO 11359-2
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
Relative Permittivity [13] (1 MHz)	3.30		IEC 60250
Dissipation Factor	0.020		IEC 60250
Comparative Tracking Index	500	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94

0.800 mm	HB	UL 94
1.60 mm	HB	UL 94

Additional Information
Maximum Service Temperature, IEC 216, some hours: 135CMaximum Service Temperature, IEC 216, 20000: 100°C

Injection	Nominal Value	Unit
Drying Temperature	110 - 120	°C
Drying Time	2.0 - 4.0	hr
Processing (Melt) Temp	240 - 260	°C
Mold Temperature	60.0 - 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.	80 x 10 x 4 mm
6.	80 x 10 x 4 mm
7.	110 x 10 x 4 mm
8.	110 x 10 x 4
9.	10 K/min, Compound for moulding
10.	>=10x10x4 mm
11.	80 x 80 x 1 mm
12.	80 x 80 x 1 mm
13.	80 x 80 x 1 mm

Recommended distributors for this material

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