Badadur® PBT8 FR

Polybutylene Terephthalate

Bada AG

Message:

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

General Information			
Features	Flame Retardant Medium Viscosity		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.45	g/cm³	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)	2800	MPa	ISO 527-2/1
Tensile Stress [2] (Break)	60.0	MPa	ISO 527-2
Tensile Strain [3] (Break)	10	%	ISO 527-2
Flexural Stress [4]	100	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [5]			ISO 179/1eA
-30°C	3.0	kJ/m²	
23°C	5.0	kJ/m²	
Notched Izod Impact Strength [6]			ISO 180/1A
-30°C	4.0	kJ/m²	
23°C	4.0	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature [7]			
0.45 MPa, Unannealed	160	°C	ISO 75-2/B
1.8 MPa, Unannealed	60.0	°C	ISO 75-2/A
Melting Temperature (DSC) [8]	223	°C	ISO 3146
CLTE [9]			DIN 53752
Flow	1.3E-4	cm/cm/°C	
Transverse	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	> 1.0E+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+16	ohms·cm	IEC 60093
Relative Permittivity (1 MHz)	3.50		IEC 60250
Dissipation Factor (1 MHz)	0.018		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (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 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.	80 x 10 x 4 mm		
5.	80 x 10 x 4 mm		
6.	80 x 10 x 4 mm		
7.	110x10x4 mm		
8.	10 K/min, Compound for moulding		
9.	>=10x10x4		

Recommended distributors for this material

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