

Badadur® PBT7

Polybutylene Terephthalate

Bada AG

Message:

Easy flowing standard injection moulding grade for thin walled products

General Information			
Features	Good Flow		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.31	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	0.50	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C)	2650	MPa	ISO 527-2/1
Tensile Stress ² (Yield, 23°C)	57.0	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)	85.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶			ISO 179/1eA
-30°C	4.0	kJ/m ²	
23°C	5.0	kJ/m ²	
Charpy Unnotched Impact Strength ⁷			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Notched Izod Impact Strength ⁸			ISO 180/1A
-30°C	4.0	kJ/m ²	
23°C	5.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁹			
0.45 MPa, Unannealed	160	°C	ISO 75-2/B
1.8 MPa, Unannealed	60.0	°C	ISO 75-2/A
Melting Temperature (DSC) ¹⁰	223	°C	ISO 3146
CLTE ¹¹			DIN 53752
Flow	1.4E-4	cm/cm/°C	
Transverse	1.4E-4	cm/cm/°C	
Maximum Service Temperature			IEC 216
--	160some hours	°C	

20000 hrs	120	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ¹²	> 1.0E+14	ohms	IEC 60093
Volume Resistivity ¹³	> 1.0E+16	ohms·cm	IEC 60093
Electric Strength ¹⁴	24	kV/mm	IEC 60243-1
Relative Permittivity ¹⁵ (1 MHz)	3.20		IEC 60250
Dissipation Factor ¹⁶ (1 MHz)	0.018		IEC 60250
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm ¹⁷	HB		
1.60 mm ¹⁸	HB		
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.	Test Specimen accordng to ISO 3167, Type A		
5.	80 x 10 x 4 mm		
6.	80 x 10 x 4 mm		
7.	80 x 10 x 4 mm		
8.	80 x 10 x 4 mm		
9.	110 x 10 x 4 mm		
10.	10 K/min, Compound for moulding		
11.	>=10x10x4		
12.	80x80x1 mm		
13.	80x80x1 mm		
14.	80x80x1 mm		
15.	80x80x1 mm		
16.	80x80x1 mm		
17.	125 x 13 x 0.8		
18.	125 x 13 x 1.6		

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