

Badadur® PBT8 S

Polybutylene Terephthalate

Bada AG

Message:

Badadur®PBT8 S is a polybutene terephthalate (PBT) material. This product is available in Europe. Badadur®The main characteristics of PBT8 S are: flame retardant/rated flame.

General Information			
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.31	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturated, 23°C	0.50	%	ISO 62
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2700	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	57.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	3.5	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	35	%	ISO 527-2/50
Flexural Stress (23°C)	85.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.0	kJ/m ²	ISO 179/1eA
23°C	4.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-30°C	5.0	kJ/m ²	ISO 180/1A
23°C	5.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ¹			
0.45 MPa, not annealed	160	°C	ISO 75-2/B
1.8 MPa, not annealed	60.0	°C	ISO 75-2/A
Melting Temperature (DSC)	223	°C	ISO 3146
Linear thermal expansion coefficient			ISO 11359-2
Flow: 4.00mm	1.3E-4	cm/cm/°C	ISO 11359-2
Lateral: 4.00mm	1.3E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms · cm	IEC 60093
Dielectric Strength	24	kV/mm	IEC 60243-1

Dielectric Constant (1 MHz)	3.20		IEC 60250
Dissipation Factor (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	HB		UL 94
1.60 mm	HB		UL 94
Additional Information			
Short-Term Heat Resistance, IEC 216, 20000 hrs: 160°C Long-Term Heat Resistance, IEC 216, 50% decrease of yield stress: 120°C			
Injection	Nominal Value	Unit	
Processing (Melt) Temp	240 - 260	°C	
Mold Temperature	80.0	°C	
NOTE			
1.	110x10x4mm		

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