



BADADUR® | PBT8 GF30 H

PBT-GF30

Medium viscosity, 30% glass fibers reinforced PBT injection molding grade, heat stabilized

Properties	Test conditions	Test method	Unit	dry as molded
Mechanical Properties				
Tensile Modulus	23°C, 1 mm/Min	ISO 527-1/2	MPa	10000
Tensile Strength at yield	23°C, 50 mm/Min	ISO 527-1/2	MPa	-
Tensile strain at yield	23°C, 50 mm/Min	ISO 527-1/2	%	-
Nominal strain at yield	23°C, 50 mm/Min	ISO 527-1/2	%	-
Tensile stress at break	23°C, 5 mm/Min	ISO 527-1/2	MPa	140
Tensile strain at break	23°C, 5 mm/Min	ISO 527-1/2	%	2.6
Flexural Modulus	23°C	ISO 178	MPa	-
Flexural Strength	23°C	ISO 178	MPa	210
Charpy Impact Strength	23°C -30°C	ISO 179/1eU	kJ/m ²	60
		ISO 179/1eU	kJ/m ²	55
Charpy Notched Impact Strength	23°C -30°C	ISO 179/1eA	kJ/m ²	11
		ISO 179/1eA	kJ/m ²	10
Izod Notched Impact Strength	23°C -30°C	ISO 180/1A	kJ/m ²	10
		ISO 180/1A	kJ/m ²	9
Ball indentation hardness	358 N	ISO 2039-1	MPa	-
Thermal Properties				
Melting temperature	10 K/min	ISO 3146	°C	223
Temperature of deflection under load	0,45 MPa 1,8 MPa 8 MPa	ISO 75-1/2	°C	220
		ISO 75-1/2	°C	205
		ISO 75-1/2	°C	-
Vicat Softening Temperature	VST A50 VST B50	ISO 306	°C	-
		ISO 306	°C	-
Coefficient of linear thermal expansion	parallel across	ISO 11359-2	E-4/K	0.35
		ISO 11359-2	E-4/K	0.95
Thermal conductivity	Test plate 2 mm	DIN 52612-1	W/(m*K)	-
Maximum service temperature	some hours 20.000 h	IEC-60216	°C	170
		IEC-60216	°C	140
Flammability		UL94	Wall thickness mm Rating	0.8
		UL94		HB
		UL94	Wall thickness mm Rating	1.6
		UL94		HB
Glow wire test GWIT		IEC-60695-2-13	Wall thickness mm	-
		IEC-60695-2-13	Temperature °C	-
		IEC-60695-2-13	Wall thickness mm	-
		IEC-60695-2-13	Temperature °C	-



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Thermal Properties				
Glow wire test GWFI		IEC-60695-2-12	Wall thickness mm	-
		IEC-60695-2-12	Temperature °C	-
		IEC-60695-2-12	Wall thickness mm	-
		IEC-60695-2-12	Temperature °C	-
Electrical Properties				
Relative Permittivity	1 MHz	IEC-62631-2-1	-	4.1
Dissipation Factor	1 MHz	IEC-62631-2-1	E-4	200
Spec. Volume Resistivity	-	IEC-62631-3-1	Ohm*cm	>1.0E16
Spec. Surface Resistivity	-	IEC-62631-3-2	Ohm	>1.0E14
Dielectric Strength	-	IEC-60243-1	kV/mm	29
Comparative Tracking Index (CTI)	-	IEC-60112	V	450
Other Data				
Water absorption	23°C, Saturation	ISO 62	%	0.37
Moisture absorption	23°C, 50% r.h.	ISO 62	%	0.13
Density	23°C	ISO 1183	g/cm ³	1.53
Melt Volume Rate (MVR)	Value	ISO 1133	cm ³ /10min	-
	Temperature	ISO 1133	°C	-
	Test Load	ISO 1133	kg	-
Processing injection molding				
Melt temperature			°C	250 - 275
Mold temperature			°C	60 - 100
Guide Value Moisture			%	< 0.04
Drying temperature			°C	100 - 120
Guide Value Drying time			h	4

Issue date 29.01.2019

LEGEND

- not tested
NB = No break

Based on our current state of knowledge, this data represents reference values and, unless otherwise stated, stands for uncoloured material. Therefore, it does not constitute a warranty of certain properties, more particularly it is no material specification. It is the responsibility of the processors to check the suitability of the material for a particular application as well as compliance with statutory regulations and intellectual property rights. The data stated above may be modified at any time without prior notice. The information does not imply any contractual obligation on our part, any liability is expressly excluded.