Technical Data Sheet

Badaprop® PPH10 GF30 H

PP-GF30

Polypropylene injection moulding grade with 30% glass fibres; heat stabilized

Properties	Test Conditions	Test Methods	Units	Typical Values
Mechanical Properties				
Tensile Modulus [1]	23° C, 1 mm/Min	ISO 527-1/2	MPa	6000
Yield Stress [1]	23° C, 50 mm/Min	ISO 527-1/2	MPa	-
Yield Strain [1]	23° C, 50 mm/Min	ISO 527-1/2	%	-
Nominal Stress at Break [1]	23° C, 50 mm/Min	ISO 527-1/2	%	-
Stress at Break [1]	23° C, 5 mm/Min	ISO 527-1/2	MPa	75
Strain at Break [1]	23° C, 5 mm/Min	ISO 527-1/2	%	3
Bending Strength [2]	23° C	ISO 178	MPa	-
Charpy Impact Strength, unnotched [2]	23° C	ISO 179-1	kJ/m²	35 -
Notched Charpy Impact Strength [2]	23 °C	ISO 179-2	kJ/m²	8 -
Izod notched Impact Strength [2]	23° C -30° C	ISO 180/1A ISO 180/1A	kJ/m² kJ/m²	- -
Thermal Properties				
Melting Temperature [3]	10 K/Min	ISO 3146	°C	165
Temperature of Deflection under Load [4]	0,45 MPa 1,8 MPa	ISO 75-1/2 ISO 75-1/2	°C °C	153 136
Coefficient of Linear Thermal Elongation [5]	parallel direction transverse direction	DIN 53752 DIN 53752	E-4/K E-4/K	- -
Maximum Service Temperature	some hours 20 000 h 50 % Decrease in Tensile Strength or Yield Stress	IEC 216	°C °C	140 100
Flammability [6]	1,6 mm 3,2 mm	UL 94 UL 94	Class Class	HB HB
Glow Wire Test	2 mm 2 mm	GWIT GWFI	IEC-60695-2-13 IEC-60695-2-12	- -
Electric Properties				
Relative Permittivity [7]	1 MHz	IEC 250	-	-
Dissipation Factor [7]	1 MHz	IEC 250	E-4	-
Dielectric Strength [7]	-	IEC 243-1	kV/mm	-
Other data				
Melt Volume Rate (MVR)	230° C/2,16kg	ISO 1133	cm^3/10 min	4
Density	23° C	ISO 1183	g/ccm	1.13
Processing				
Melt Temperature	-	-	°C	220 - 240
Mold Temperature	-	-	°C	20 - 40

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