Technical data sheet

Badaprop® PPH10 GF10 FR HF

>PP-GF10-FR<

PP homopolymer injection molding grade, 10% glass fibers, flame retarded without halogens

Properties	Test Conditions	Test Methods	Units	Typical Values
Mechanical Properties				
Tensile Modulus [1]	23° C, 1 mm/Min	ISO 527-1/2	MPa	3500
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	45
Strain at Break [1]	23° C, 5 mm/Min	ISO 527-1/2	%	5
Bending Strength [2]	23° C	ISO 178	MPa	-
Charpy Impact Strength, unnotched [2]	23° C	ISO 179-1	kJ/m²	33 -
Notched Charpy Impact Strength [2]	23 °C	ISO 179-2	kJ/m²	7 -
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	110 -
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	- -
Flammability [6]	0,8 mm 1,6 mm	UL 94 UL 94	Class Class	- V-0
Glow Wire Test	2 mm 2 mm	GWIT GWFI	IEC-60695-2-13 IEC-60695-2-12	- 960°C
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	-
Density	23° C	ISO 1183	g/ccm	1,12
Processing				
Melt Temperature	-	-	°C	220 - 240
Mold Temperature	-	-	°C	20 - 40

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