



Badaprop® PPH10 TM-Z1 FR				
Injection moulding grade PP homopolymer				
>PP-I-FR<				
Properties	Test Conditions	Test Methods	Units	Typical Values
Mechanical Properties				
Tensile Modulus ¹	23° C, 1 mm/Min	ISO 527-1/2	MPa	1200
Yield Stress ¹	23° C, 50 mm/Min	ISO 527-1/2	MPa	19
Yield Strain ¹	23° C, 50 mm/Min	ISO 527-1/2	%	6
Nominal Stress at Break ¹	23° C, 50 mm/Min	ISO 527-1/2	%	160
Stress at Break ¹	23° C, 5 mm/Min	ISO 527-1/2	MPa	-
Strain at Break ¹	23° C, 5 mm/Min	ISO 527-1/2	%	-
Bending Strength ²	23° C	ISO 178	MPa	-
Charpy Impact Strength, unnotched ²	23° C	ISO 179-1	kJ/m ²	140
Notched Charpy Impact Strength ²	23 °C	ISO 179-2	kJ/m ²	6
Izod notched Impact Strength ²	23° C -30° C	ISO 180/1A ISO 180/1A	kJ/m ² kJ/m ²	- -
Thermal Properties				
Melting Temperature ³	10 K/Min	ISO 3146	°C	163
Temperature of Deflection under Load ⁴	0,45 MPa 1,8 MPa	ISO 75-1/2 ISO 75-1/2	°C °C	85 55
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	1,6 mm 3,2 mm	UL 94 UL 94	Class Class	V-0 V-0
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	-
Density	23° C	ISO 1183	g/ccm	1,3
Processing				
Melt Temperature	-	-	°C	240 - 260
Mold Temperature	-	-	°C	10 - 30

LEGEND:

- ¹ Test Specimen according to ISO 3167, Type A
- ² Standard bar (80 x 10 x 4) mm
- ³ Compound for moulding
- ⁴ Standard bar (110 x 10 x 4) mm
- ⁵ Specimen (≥ 10 x 10 x 4) mm
- ⁶ Standard bar [125 x 13 x 0,8(1,6)] mm
- ⁷ Bar (80 x 80 x 1) mm
- ⁸ Specimen (≥ 15 x 15 x 4) mm
- * not relevant
- not tested
- NB = No break

These data are typical values and represent the state of our knowledge at issue date. If not otherwise stated, the data is related to uncoloured material. They must not be construed as specification limits or as a guarantee for specific properties. It is the liability of the processor to test the suitability of the material for a specific application.

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