



<b>Badalac® ABS/PC 130</b>				
>ABS+PC<				
ABS/PC injection moulding grade with very good flow properties				
Properties	Test Conditions	Test Methods	Units	Typical Values
<b>Mechanical Properties</b>				
Tensile Modulus <sup>1</sup>	23° C, 1 mm/Min	ISO 527-1/2	MPa	2 200
Yield Stress <sup>1</sup>	23° C, 50 mm/Min	ISO 527-1/2	MPa	52
Yield Strain <sup>1</sup>	23° C, 50 mm/Min	ISO 527-1/2	%	4,5
Nominal Stress at Break <sup>1</sup>	23° C, 50 mm/Min	ISO 527-1/2	%	>50
Stress at Break <sup>1</sup>	23° C, 5 mm/Min	ISO 527-1/2	MPa	*
Strain at Break <sup>1</sup>	23° C, 5 mm/Min	ISO 527-1/2	%	*
Bending Strength <sup>2</sup>	23° C	ISO 178	MPa	*
Charpy Impact Strength, unnotched <sup>2</sup>	23° C	ISO 179/1eU	kJ/m2	KB
	-30° C	ISO 179/1eU	kJ/m2	KB
Notched Charpy Impact Strength <sup>2</sup>	23° C	ISO 179/1eA	kJ/m2	45
	-30° C	ISO 179/1eA	kJ/m2	-
Izod notched Impact Strength <sup>2</sup>	23° C	ISO 180/1A	kJ/m2	-
	-30° C	ISO 180/1A	kJ/m2	-
<b>Thermal Properties</b>				
Vicat Softening Temperature <sup>3</sup>	VST/A/50	ISO 306	°C	-
	VST/B/50	ISO 306	°C	130
Temperature of Deflection under Load <sup>4</sup>	0,45 MPa	ISO 75-1/2	°C	130
	1,8 MPa	ISO 75-1/2	°C	110
Coefficient of Linear Thermal Elongation <sup>5</sup>	parallel direction	DIN 53752	E-4/K	0,8
	transverse direction	DIN 53752	E-4/K	-
Maximum Service Temperature	some hours	-	°C	-
	20 000 h 50 % Decrease in Tensile Str.	IEC 216	°C	-
Flammability <sup>6</sup>	0,8 mm	UL 94	Class	-
	1,6 mm	UL 94	Class	HB
<b>Electric Properties</b>				
Relative Permittivity <sup>7</sup>	1 MHz	IEC 250	-	-
Dissipation Factor <sup>7</sup>	1 MHz	IEC 250	E-4	-
Specific Volume Resistivity <sup>7</sup>	-	IEC 93	Ohm cm	10 <sup>14</sup>
Specific Surface Resistivity <sup>7</sup>	-	IEC 93	Ohm	-
Dielectric Strength <sup>7</sup>	-	IEC 243-1	kV/mm	-
Comparative Tracking Index	-	IEC 112	V	275
<b>Other Data</b>				
Water Absorption	23° C Sättigung	ISO 62	%	-
Moisture Absorption	23° C, 50 % r.F.	ISO 62	%	0,2
Melt Volume Rate (MVR)	260° C/5kg	ISO 1133	cm <sup>3</sup> /10 min	20
Density	23° C	ISO 1183	g/ccm	1,12
<b>Processing</b>				
Melt Temperature	-	-	°C	250 – 280
Tool Surface Temperature	-	-	°C	70 – 90
Drying Temperature	-	-	°C	80
Drying Time	-	-	h	2 – 4

**LEGEND:**

<sup>1</sup> Test Specimen according to ISO 3167, Type A

<sup>2</sup> Standard bar (80 x 10 x 4) mm

<sup>3</sup> Compound for moulding

<sup>4</sup> Standard bar (110 x 10 x 4) mm

<sup>5</sup> Specimen (≥ 10 x 10 x 4) mm

<sup>6</sup> Standard bar [125 x 13 x 0,8(1,6)] mm

<sup>7</sup> Bar (80 x 80 x 1) mm

<sup>8</sup> 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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