



# TECHNICAL DATA SHEET

## Witcom PA6/2C, based on Polyamide 6 (PA6)

10% carbon fibres, conductive

Properties	Test method	Unit	PA6/2C
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### Physical properties

Specific gravity	ISO 1183	g/cm <sup>3</sup>	1,18
Water absorption at saturation, 23 °C	ISO 62	%	8,6
Humidity absorption, 23 °C/50 % RH	ISO 62	%	2,7
Mould shrinkage (flow direction, 3 mm)	ISO 2577	%	0,3 - 0,6

### Mechanical properties

Tensile strength (max.)	ISO 527	MPa	150
Elongation at break	ISO 527	%	2 - 4
Flexural strength	ISO 178	MPa	200
Flexural modulus	ISO 178	GPa	8,0
IZOD impact strength, notched	ISO 180/1eA	kJ/m <sup>2</sup>	4,5
IZOD impact strength, unnotched	ISO 180/1eU	kJ/m <sup>2</sup>	35

### Thermal properties

Heat distortion temperature (1,81 MPa)	ISO 75	°C	195
Relative temperature index, 3 mm with impact	UL 746B	°C	95
Coefficient of linear thermal expansion	ISO 11359	K-1·10 <sup>-5</sup>	3,2

### Flammability

Burning behaviour	ISO 1210	-	HB @ 3,0 mm
UL recognition	UL94	-	-

### Electrical properties

Surface resistivity	ASTM D257	Ω/sq	10 <sup>3</sup> - 10 <sup>5</sup>
Volume resistivity	ASTM D257	Ω-cm	10 <sup>4</sup> - 10 <sup>6</sup>
Comparative tracking index	IEC 60112	V	-
Glow wire rating, 1,6 mm	IEC 695-2-1	°C	650

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