



# PRELIMINARY DATA SHEET

## Witcom PA6/6G-AS-X, based on Polyamide 6 (PA6)

30% glass fibres, permanently anti-static, meets ATEX-regulations

Properties	Test method	Unit	PA6/6G-AS-X
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### *Physical properties*

Specific gravity	ISO 1183	g/cm <sup>3</sup>	1,38
Water absorption at saturation, 23 °C	ISO 62	%	-
Humidity absorption, 23 °C/50 % RH	ISO 62	%	-
Mould shrinkage (flow direction, 3 mm)	ISO 2577	%	0,2 - 0,4

### *Mechanical properties*

Tensile strength (max.)	ISO 527	MPa	125
Elongation at break	ISO 527	%	3 - 5
Flexural strength	ISO 178	MPa	135
Flexural modulus	ISO 178	GPa	6,0
IZOD impact strength, notched	ISO 180/1eA	kJ/m <sup>2</sup>	16,0
IZOD impact strength, unnotched	ISO 180/1eU	kJ/m <sup>2</sup>	95

### *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>	3,0

### *Flammability*

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

### *Electrical properties*

Surface resistivity	ASTM D257	Ω/sq	< 10 <sup>9</sup>
Volume resistivity	ASTM D257	Ω·cm	-
Comparative tracking index	IEC 60112	V	-
Glow wire rating, 1,6 mm	IEC 695-2-1	°C	-

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