

TECHNICAL DATA SHEET

Witcom PPA/6C/3L1-HS, based on Polyphthalamide (PPA)

30% carbon fibres, 15% PTFE, heat stabilised, conductive

Properties	Test method	Unit	PPA/6C/3L1-HS
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Physical properties

Specific gravity	ISO 1183	g/cm ³	1,43
Water absorption at saturation, 23 °C	ISO 62	%	3,6
Humidity absorption, 23 °C/50 % RH	ISO 62	%	1,1
Mould shrinkage (flow direction, 3 mm)	ISO 2577	%	0,1 - 0,3

Mechanical properties

Tensile strength (max.)	ISO 527	MPa	250
Elongation at break	ISO 527	%	1 - 2
Flexural strength	ISO 178	MPa	340
Flexural modulus	ISO 178	GPa	22,5
IZOD impact strength, notched	ISO 180/1eA	kJ/m ²	7,5
IZOD impact strength, unnotched	ISO 180/1eU	kJ/m ²	45

Thermal properties

Heat distortion temperature (1,81 MPa)	ISO 75	°C	285
Relative temperature index, 3 mm with impact	UL 746B	°C	130
Coefficient of linear thermal expansion	ISO 11359	K ⁻¹ ·10 ⁻⁵	1,7

Flammability

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

Electrical properties

Surface resistivity	ASTM D257	Ω/sq	10 ² - 10 ⁴
Volume resistivity	ASTM D257	Ω·cm	10 ² - 10 ⁴
Comparative tracking index	IEC 60112	V	-
Glow wire rating, 1,6 mm	IEC 695-2-1	°C	750

Revision date: 04-10-2007

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