

**WITCOM**

A member of Wittenburg Group

Your partner in speciality engineering plastics compounds

Preliminary Data Sheet Witcom PPA/6LC-HS

30% long carbon fibres

Latest revision: March 2013

Properties	Test methods	Units	Witcom PPA/6LC-HS
Physical properties			
Specific gravity	ISO 1183	g/cm ³	1,30
Water absorption at saturation, 23 °C	ISO 62	%	5,6
Humidity absorption, 23 °C/50 % r.h.	ISO 62	%	1,8
Mould shrinkage (flow direction, 3 mm)	ISO 2577	%	0,10 - 0,30
Mechanical properties			
Tensile strength (max.)	ISO 527	MPa	290
Elongation at break	ISO 527	%	1 - 2
Tensile modulus	ISO 527	GPa	28,0
Flexural strength	ISO 178	MPa	440
Flexural modulus	ISO 178	GPa	25,0
IZOD impact strength, notched	ISO 180/1eA	kJ/m ²	10,0
IZOD impact strength, unnotched	ISO 180/1eU	kJ/m ²	50,0
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	IEC 60695-11-10	-	HB @ 3,0 mm
UL recognition	UL94	-	-
Electrical properties			
Surface resistivity	ASTM D257	Ω/sq	10 ¹ - 10 ³
Comparative tracking index	IEC 60112	V	-
Glow wire rating, 1,6 mm	IEC 695-2-1	°C	750
Processing conditions (injection moulding)			
Drying conditions (dehumidifying drier)	: 4 - 8 Hours @ 130 °C		
Maximum allowable moisture content	: 0,10 %		
Melt temperature	: 320 - 345 °C		
Mould temperature	: 135 - 165 °C		
Screw speed	: 0,1 - 0,2 m/s		
Back pressure	: 0 - 1,0 MPa		
Injection pressure	: Keep to a minimum		
Injection speed	: Fast ram speed		
Hold pressure	: Keep to a minimum		
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