

**Technical Data Sheet Witcom PP/5LG-EC**

25% long glass fibres, electrically conductive

Latest revision: Feb. 2013

Properties	Test methods	Units	Witcom PP/5LG-EC
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Physical properties

Specific gravity	ISO 1183	g/cm ³	1,19
Water absorption at saturation, 23 °C	ISO 62	%	0,03
Humidity absorption, 23 °C/50 % r.h.	ISO 62	%	0,01
Mould shrinkage (flow direction, 3 mm)	ISO 2577	%	0,3 - 0,5

Mechanical properties

Tensile strength (max.)	ISO 527	MPa	85
Elongation at break	ISO 527	%	1 - 3
Flexural strength	ISO 178	MPa	120
Flexural modulus	ISO 178	GPa	7,7
IZOD impact strength, notched	ISO 180/1eA	kJ/m ²	13
IZOD impact strength, unnotched	ISO 180/1eU	kJ/m ²	30

Thermal properties

Heat distortion temperature (1,81 MPa)	ISO 75	°C	150
Relative temperature index, 3 mm, with impact	UL 746B	°C	75
Coefficient of linear thermal expansion	ISO 11359	K-1·10 ⁻⁵	4,5

Flammability

Burning behaviour	IEC 60695-11-10	-	HB @ 3,0 mm
UL recognition	UL94	-	-

Electrical properties

Surface resistivity	ASTM D257	Ω/sq	10 ⁵ - 10 ⁸
Comparative tracking index	IEC 60112	V	-
Glow wire rating, 1,6 mm	IEC 695-2-1	°C	-

Processing conditions (injection moulding)

Drying conditions (dehumidifying drier)	: 2 - 4 Hours @ 80 °C
Maximum allowable moisture content	: 0,05 %
Melt temperature	: 200 - 260 °C
Mould temperature	: 40 - 80 °C
Screw speed	: 0,1 - 0,15 m/s
Back pressure	: 0 - 0,5 MPa
Injection pressure	: Keep to a minimum
Injection speed	: Fast ram speed
Hold pressure	: Keep to a minimum

Witcom Engineering Plastics BV
 Penningweg 52
 4879 AG Etten-Leur
 The Netherlands

Tel.: + 31-(0) 76 - 504 30 80
 Fax: + 31-(0) 76 - 504 30 81
 Email: info@witcombv.nl
 Website: www.witcombv.nl

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