



TECHNICAL DATA SHEET

Witcom PC-EC-EM-FR, based on Polycarbonate (PC)

conductive, easy moulding, flame retardant

Properties	Test method	Unit	PC-EC-EM-FR
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Physical properties

Specific gravity	ISO 1183	g/cm ³	1,30
Water absorption at saturation, 23 °C	ISO 62	%	0,3
Humidity absorption, 23 °C/50 % RH	ISO 62	%	0,1
Mould shrinkage (flow direction, 3 mm)	ISO 2577	%	0,4 - 0,7

Mechanical properties

Tensile strength (max.)	ISO 527	MPa	65
Elongation at break	ISO 527	%	>5
Flexural strength	ISO 178	MPa	90
Flexural modulus	ISO 178	GPa	2,8
IZOD impact strength, notched	ISO 180/1eA	kJ/m ²	8,0
IZOD impact strength, unnotched	ISO 180/1eU	kJ/m ²	95

Thermal properties

Heat distortion temperature (1,81 MPa)	ISO 75	°C	130
Relative temperature index, 3 mm with impact	UL 746B	°C	130
Coefficient of linear thermal expansion	ISO 11359	K-1·10 ⁻⁵	6,3

Flammability

Burning behaviour	ISO 1210	-	-
UL recognition	UL94	-	V1 @ 1,5mm V0 @ 3,0mm

Electrical properties

Surface resistivity	ASTM D257	Ω/sq	10 ⁴ - 10 ⁷
Volume resistivity	ASTM D257	Ω·cm	10 ⁵ - 10 ⁸
Comparative tracking index	IEC 60112	V	-
Glow wire rating, 1,6 mm	IEC 695-2-1	°C	960

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