



PRELIMINARY DATA SHEET

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

conductive, easy moulding

Properties	Test method	Unit	PC-EC-EM
Physical properties			
Specific gravity	ISO 1183	g/cm ³	1,28
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	60
Elongation at break	ISO 527	%	>10
Flexural strength	ISO 178	MPa	80
Flexural modulus	ISO 178	GPa	2,5
IZOD impact strength, notched	ISO 180/1eA	kJ/m ²	13,0
IZOD impact strength, unnotched	ISO 180/1eU	kJ/m ²	no break
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	-	HB @ 3,0 mm
UL recognition	UL94	-	-
Electrical properties			
Surface resistivity	ASTM D257	Ω/sq	10 ³ – 10 ⁵
Volume resistivity	ASTM D257	Ω·cm	10 ⁴ – 10 ⁶
Comparative tracking index	IEC 60112	V	-
Glow wire rating, 1,6 mm	IEC 695-2-1	°C	850

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