TECHNICAL DATA SHEET

Witcom POM-C/2C, based on Polyoxymethylene Copolymer (POM-C)

10% carbon fibres, conductive

Properties	Test method	Unit	POM-C/2C
Physical properties			
Specific gravity	ISO 1183	g/cm^3	1,44
Water absorption at saturation, 23 °C	ISO 62	%	0,8
Humidity absorption, 23 °C/50 % RH	ISO 62	%	0,2
Mould shrinkage (flow direction, 3 mm)	ISO 2577	%	0,5 – 0,9
Mechanical properties			
Tensile strength (max.)	ISO 527	MPa	85
Elongation at break	ISO 527	%	1 – 3
Flexural strength	ISO 178	MPa	110
Flexural modulus	ISO 178	GPa	6,0
IZOD impact strength, notched	ISO 180/1eA	kJ/m^2	4,8
IZOD impact strength, unnotched	ISO 180/1eU	kJ/m^2	20
Thermal properties			
Heat distortion temperature (1,81 MPa)	ISO 75	°C	160
Relative temperature index, 3 mm with impact	UL 746B	°C	95
Coefficient of linear thermal expansion	ISO 11359	$K\text{-}1 \cdot 10^{-5}$	4,0
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	-

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