PRELIMINARY DATA SHEET

Witcom POM-C/1L2, based on Polyoxymethylene Copolymer (POM-C)

Silicon oil

Properties	Test methods	Units	POM-C/1L2
Physical properties			
Specific gravity	ISO 1183	g/cm^3	1,40
Water absorption at saturation, 23 °C	ISO 62	%	0,8
Humidity absorption, 23 °C/50 % r.h.	ISO 62	%	0,2
Mould shrinkage (flow direction, 3 mm)	ISO 2577	%	1,8 – 3,0
Mechanical properties			
Tensile strength (max.) (50 mm/min)	ISO 527	MPa	60
Elongation at break (50 mm/min)	ISO 527	%	>20
Flexural strength	ISO 178	MPa	70
Flexural modulus	ISO 178	GPa	2,1
IZOD impact strength, notched	ISO 180/1eA	kJ/m^2	7,5
IZOD impact strength, unnotched	ISO 180/1eU	kJ/m^2	70
Thermal properties			
Heat distortion temperature (1,81 MPa)	ISO 75	°C	105
Relative temperature index, 3 mm, with impact	UL 746B	°C	90
Coefficient of linear thermal expansion	ISO 11359	$K\text{-}1 \cdot 10^{-5}$	11,0
Flammability			
Burning behaviour	ISO 1210	-	HB @ 3,0 mm
UL recognition	UL94	-	-
Electrical properties			
Surface resistivity	ASTM D257	Ω/sq	10^{14}
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 - 3 Hours @ 80 °C
Maximum allowable moisture content	:	0,05 %
Melt temperature	:	170 - 210 °C
Mould temperature	:	50 - 120 °C
Screw speed	:	0,1 - 0,2 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

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