



PRELIMINARY DATA SHEET

Witcom PE/4L1, based on Polyethylene (PE)

Lubricated

Properties	Test method	Unit	PE/4L1 PE/20PTFE
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Physical properties

Specific gravity	ISO 1183	g/cm ³	1,06
Water absorption at saturation, 23 °C	ISO 62	%	0,02
Humidity absorption, 23 °C/50 % RH	ISO 62	%	0,01
Mould shrinkage (flow direction, 3 mm)	ISO 2577	%	1,0 - 2,5

Mechanical properties

Tensile strength (max.)	ISO 527	MPa	20
Elongation at break	ISO 527	%	>50
Flexural strength	ISO 178	MPa	25
Flexural modulus	ISO 178	GPa	1,2
IZOD impact strength, notched	ISO 180/1eA	kJ/m ²	5,5
IZOD impact strength, unnotched	ISO 180/1eU	kJ/m ²	no break

Thermal properties

Heat distortion temperature (1,81 MPa)	ISO 75	°C	45
Relative temperature index, 3 mm with impact	UL 746B	°C	60
Coefficient of linear thermal expansion	ISO 11359	K·10 ⁻⁵	15,0

Flammability

Burning behaviour	ISO 1210	-	HB @ 3,0 mm
UL recognition	UL94	-	-

Electrical properties

Surface resistivity	ASTM D257	Ω/sq	10 ¹⁵
Volume resistivity	ASTM D257	Ω·cm	10 ¹⁵
Comparative tracking index	IEC 60112	V	600
Glow wire rating, 1,6 mm	IEC 695-2-1	°C	-

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