

TECHNICAL DATA SHEET

Witcom PEEK/4L1, based on Polyetheretherketone (PEEK)

20% PTFE

Properties	Test method	Unit	PEEK/4L1
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Physical properties

Specific gravity	ISO 1183	g/cm ³	1,41
Water absorption at saturation, 23 °C	ISO 62	%	0,5
Humidity absorption, 23 °C/50 % RH	ISO 62	%	0,2
Mould shrinkage (flow direction, 3 mm)	ISO 2577	%	1,0 - 1,4

Mechanical properties

Tensile strength (max.)	ISO 527	MPa	75
Elongation at break	ISO 527	%	>15
Flexural strength	ISO 178	MPa	105
Flexural modulus	ISO 178	GPa	3,1
IZOD impact strength, notched	ISO 180/1eA	kJ/m ²	6,6
IZOD impact strength, unnotched	ISO 180/1eU	kJ/m ²	65

Thermal properties

Heat distortion temperature (1,81 MPa)	ISO 75	°C	155
Relative temperature index, 3 mm with impact	UL 746B	°C	180
Coefficient of linear thermal expansion	ISO 11359	K ⁻¹ ·10 ⁻⁵	4,7

Flammability

Burning behaviour	ISO 1210	-	V0 @ 0,8 mm
UL recognition	UL94	-	-

Electrical properties

Surface resistivity	ASTM D257	Ω/sq	10 ¹⁵
Volume resistivity	ASTM D257	Ω·cm	10 ¹⁶
Comparative tracking index	IEC 60112	V	175
Glow wire rating, 1,6 mm	IEC 695-2-1	°C	960

Revision date: 05-11-2007

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