



TECHNICAL DATA SHEET

Witcom PEI/3L1, based on Polyetherimide (PEI)

15% PTFE

Properties	Test method	Unit	PEI/3L1
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Physical properties

Specific gravity	ISO 1183	g/cm ³	1,35
Water absorption at saturation, 23 °C	ISO 62	%	1,1
Humidity absorption, 23 °C/50 % RH	ISO 62	%	0,6
Mould shrinkage (flow direction, 3 mm)	ISO 2577	%	0,5 - 0,7

Mechanical properties

Tensile strength (max.)	ISO 527	MPa	90
Elongation at break	ISO 527	%	>5
Flexural strength	ISO 178	MPa	110
Flexural modulus	ISO 178	GPa	3,0
IZOD impact strength, notched	ISO 180/1eA	kJ/m ²	5,5
IZOD impact strength, unnotched	ISO 180/1eU	kJ/m ²	45

Thermal properties

Heat distortion temperature (1,81 MPa)	ISO 75	°C	190
Relative temperature index, 3 mm with impact	UL 746B	°C	170
Coefficient of linear thermal expansion	ISO 11359	K-1·10 ⁻⁵	6,0

Flammability

Burning behaviour	ISO 1210	-	V0 @ 1,6 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	150
Glow wire rating, 1,6 mm	IEC 695-2-1	°C	960

Revision date: 12-10-2007

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