



PRELIMINARY DATA SHEET

Witcom PPS-2007/277, based on Polyphenylenesulfide (PPS)

reinforced, thermally conductive

Properties	Test method	Unit	PPS-2007/277
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Physical properties

Specific gravity	ISO 1183	g/cm ³	2,49
Water absorption at saturation, 23 °C	ISO 62	%	0,02
Humidity absorption, 23 °C/50 % RH	ISO 62	%	0,02
Mould shrinkage (flow direction, 3 mm)	ISO 2577	%	0,2 - 0,4

Mechanical properties

Tensile strength (max.)	ISO 527	MPa	40
Elongation at break	ISO 527	%	0,5 - 1,0
Flexural strength	ISO 178	MPa	60
Flexural modulus	ISO 178	GPa	19,0
IZOD impact strength, notched	ISO 180/1eA	kJ/m ²	4,0
IZOD impact strength, unnotched	ISO 180/1eU	kJ/m ²	10

Thermal properties

Heat distortion temperature (1,81 MPa)	ISO 75	°C	260
Relative temperature index, 3 mm with impact	UL 746B	°C	-
Thermal conductivity*	ASTM E1530	W/mK	1,2

Flammability

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

Electrical properties

Surface resistivity	ASTM D257	Ω/sq	10 ¹⁴ - 10 ¹⁶
Volume resistivity	ASTM D257	Ω-cm	10 ¹⁴ - 10 ¹⁶
Comparative tracking index	IEC 60112	V	-
Glow wire rating, 1,6 mm	IEC 695-2-1	°C	960

* Through plane

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