



# TECHNICAL DATA SHEET

## Witcom PS/6L5, based on Polystyrene (PS)

Properties	Test method	Unit	PS/6L5 (Graphite30)
<b>Physical properties</b>			
Specific gravity	ISO 1183	g/cm <sup>3</sup>	1,22
Water absorption at saturation, 23 °C	ISO 62	%	0,1
Humidity absorption, 23 °C/50 % RH	ISO 62	%	0,1
Mould shrinkage (flow direction, 3 mm)	ISO 2577	%	0,3 – 0,6
<b>Mechanical properties</b>			
Tensile strength (max.)	ISO 527	MPa	37
Elongation at break	ISO 527	%	1 - 2
Flexural strength	ISO 178	MPa	63
Flexural modulus	ISO 178	GPa	6,8
IZOD impact strength, notched	ISO 180/1eA	kJ/m <sup>2</sup>	2,5
IZOD impact strength, unnotched	ISO 180/1eU	kJ/m <sup>2</sup>	5,8
<b>Thermal properties</b>			
Heat distortion temperature (1,81 MPa)	ISO 75	°C	80
Relative temperature index, 3 mm with impact	UL 746B	°C	60
Coefficient of linear thermal expansion	ISO 11359	K-1·10 <sup>-5</sup>	8
<b>Flammability</b>			
Burning behaviour	ISO 1210	-	HB @ 3,0 mm
UL recognition	UL94	-	-
<b>Electrical properties</b>			
Surface resistivity	ASTM D257	Ω/sq	-
Volume resistivity	ASTM D257	Ω·cm	-
Comparative tracking index	IEC 60112	V	-
Glow wire rating, 1,6 mm	IEC 695-2-1	°C	-

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