



# TECHNICAL DATA SHEET

## Witcom ABS/3S, based on Acrylonitrile-Butadiene-Styrene (ABS)

stainless steel fibres, EMI-shielding modified

Properties	Test method	Unit	ABS/3S
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### ***Physical properties***

Specific gravity	ISO 1183	g/cm <sup>3</sup>	1,16
Water absorption at saturation, 23 °C	ISO 62	%	1
Humidity absorption, 23 °C/50 % RH	ISO 62	%	0,3
Mould shrinkage (flow direction, 3 mm)	ISO 2577	%	0,4 - 0,7

### ***Mechanical properties***

Tensile strength (max.)	ISO 527	MPa	40
Elongation at break	ISO 527	%	2 - 6
Flexural strength	ISO 178	MPa	75
Flexural modulus	ISO 178	GPa	3,7
IZOD impact strength, notched	ISO 180/1eA	kJ/m <sup>2</sup>	6,5
IZOD impact strength, unnotched	ISO 180/1eU	kJ/m <sup>2</sup>	20

### ***Thermal properties***

Heat distortion temperature (1,81 MPa)	ISO 75	°C	80
Relative temperature index, 3 mm with impact	UL 746B	°C	90
Coefficient of linear thermal expansion	ISO 11359	K-1·10 <sup>-5</sup>	7,0

### ***Flammability***

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

### ***Electrical properties***

Surface resistivity	ASTM D257	Ω/sq	10 <sup>3</sup> -10 <sup>4</sup>
Shielding effectiveness far field, 3 mm	ASTM D4935	dB	>55
Comparative tracking index	IEC 60112	V	-
Glow wire rating, 1,6 mm	IEC 695-2-1	°C	650

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