



# TECHNICAL DATA SHEET

Witcom ABS, based on Acrylonitrile-Butadiene-Styrene (ABS)

Properties	Test method	Unit	ABS
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## ***Physical properties***

Specific gravity	ISO 1183	g/cm <sup>3</sup>	1,04
Water absorption at saturation, 23 °C	ISO 62	%	1,0
Humidity absorption, 23 °C/50 % RH	ISO 62	%	0,2
Mould shrinkage (flow direction, 3 mm)	ISO 2577	%	0,4 - 0,7

## ***Mechanical properties***

Tensile strength (max.)	ISO 527	MPa	45
Elongation at break	ISO 527	%	10
Flexural strength	ISO 178	MPa	65
Flexural modulus	ISO 178	GPa	2,4
IZOD impact strength, notched	ISO 180/1eA	kJ/m <sup>2</sup>	26,0
IZOD impact strength, unnotched	ISO 180/1eU	kJ/m <sup>2</sup>	80

## ***Thermal properties***

Heat distortion temperature (1,81 MPa)	ISO 75	°C	95
Relative temperature index, 3 mm with impact	UL 746B	°C	80
Coefficient of linear thermal expansion	ISO 11359	K-1·10 <sup>-5</sup>	8,0

## ***Flammability***

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

## ***Electrical properties***

Surface resistivity	ASTM D257	Ω/sq	10 <sup>15</sup>
Volume resistivity	ASTM D257	Ω·cm	10 <sup>15</sup>
Comparative tracking index	IEC 60112	V	600
Glow wire rating, 1,6 mm	IEC 695-2-1	°C	650

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