



# PRELIMINARY DATA SHEET

## Witcom PC/ABS/3S-FR, based on Polycarbonate / Acrylonitrile-Buradiene-Styrene Blend (PC/ABS)

stainless steel fibres, flame retardant, EMI shielding modified

Properties	Test method	Unit	PC/ABS/3S-FR
<b>Physical properties</b>			
Specific gravity	ISO 1183	g/cm <sup>3</sup>	1,35
Water absorption at saturation, 23 °C	ISO 62	%	0,3
Humidity absorption, 23 °C/50 % RH	ISO 62	%	0,1
Mould shrinkage (flow direction, 3 mm)	ISO 2577	%	0,4 - 0,6
<b>Mechanical properties</b>			
Tensile strength (max.)	ISO 527	MPa	55
Elongation at break	ISO 527	%	10
Flexural strength	ISO 178	MPa	90
Flexural modulus	ISO 178	GPa	2,8
IZOD impact strength, notched	ISO 180/1eA	kJ/m <sup>2</sup>	6
IZOD impact strength, unnotched	ISO 180/1eU	kJ/m <sup>2</sup>	34
<b>Thermal properties</b>			
Heat distortion temperature (1,81 MPa)	ISO 75	°C	90
Relative temperature index, 3 mm with impact	UL 746B	°C	85
Coefficient of linear thermal expansion	ISO 11359	K-1·10 <sup>-5</sup>	6,0
<b>Flammability</b>			
Burning behaviour	ISO 1210	-	V0 @ 3,0 mm
UL recognition	UL94	-	-
<b>Electrical properties</b>			
Surface resistivity	ASTM D257	Ω/sq	10 <sup>1</sup> -10 <sup>5</sup>
Shielding effectiveness far field, 3 mm	ASTM D4935	dB	50 - 65
Comparative tracking index	IEC 60112	V	-
Glow wire rating, 1,6 mm	IEC 695-2-1	°C	750

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