



PRELIMINARY DATA SHEET

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

flame retardant, permanently anti-static

Properties	Test method	Unit	ABS-AS-FR
Physical properties			
Specific gravity	ISO 1183	g/cm ³	1,21
Water absorption at saturation, 23 °C	ISO 62	%	-
Humidity absorption, 23 °C/50 % RH	ISO 62	%	-
Mould shrinkage (flow direction, 3 mm)	ISO 2577	%	0,5 - 0,9
Mechanical properties			
Tensile strength (max.)	ISO 527	MPa	35
Elongation at break	ISO 527	%	>15
Flexural strength	ISO 178	MPa	50
Flexural modulus	ISO 178	GPa	1,7
IZOD impact strength, notched	ISO 180/1eA	kJ/m ²	7,9
IZOD impact strength, unnotched	ISO 180/1eU	kJ/m ²	>50
Thermal properties			
Heat distortion temperature (1,81 MPa)	ISO 75	°C	80
Relative temperature index, 3 mm with impact	UL 746B	°C	-
Coefficient of linear thermal expansion	ISO 11359	K-1·10 ⁻⁵	-
Flammability			
Burning behaviour	ISO 1210	-	V0 @ 1,5 mm
UL recognition	UL94	-	-
Electrical properties			
Surface resistivity	ASTM D257	Ω/sq	10 ⁹ - 10 ¹¹
Volume resistivity	ASTM D257	Ω·cm	10 ⁹ - 10 ¹¹
Comparative tracking index	IEC 60112	V	-
Glow wire rating, 1,6 mm	IEC 695-2-1	°C	-

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