Technical Data Sheet

ALTECH SAN A 1000/587.01

(Last update: 13.06.2018)

Base Polymer	Styrene/Acrylonitrile/Copolymer
Special Features	improved stress cracking resistance,good chemical resistance,high stiffness,high surface gloss,easy release (demoulding),good flow,injection moulding grade
Typical Applications	various

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-4 h 80 °C in an air circulating dryer for 3-6 h
Processing Injection Moulding	melt temperature 210-260 °C mould temperature 40-80 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	3700	MPa	ISO 178
Flexural Strength	110	MPa	ISO 178
Tensile Modulus	3700	MPa	ISO 527
Tensile Strength at Break	70	MPa	ISO 527
Tensile Elongation at Break	3	%	ISO 527
Impact Strength (Charpy, 23°C)	19	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	1.5	kJ/m²	ISO 179/1eA
Ball Indentation Hardness H358/30	163	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	103	°C	ISO 306
HDT / A (1,8 MPa)	89	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	25	cm³/10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (24h)	≥0.55	%	ISO 294-4
Physical Properties			
Density	1070	kg/m³	ISO 1183
Flammability			
Flammability (1.5 mm)	HB	class	UL 94
Flammability (3.0 mm)	HB	class	UL 94

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Glow Wire (GWFI, 650°C, 1.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 650°C, 2.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 650°C, 3.0mm)	passed	-	DIN EN 60695

Liability Exclusion
These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

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- any critical component in any medical device that supports or sustains human life.

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