Technical Data Sheet

Altech®

ALBIS

ALTECH PA6 A 1000/149 FR

M COM

Base Polymer	Polyamide 6
Colour	natural color,black
Special Features	flame retardant,halogen-free flame retardant,heat stabilised,easy release (demoulding)
Market Segment	Automotive,electrical and electronic,Machinery
Application Area	injection moulded parts,exterior parts,electrical components
Typical Applications	housings,different automotive powertrain parts,functional components

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-12 h dependant on moisture content max. moisture content <0,15 %
Processing Injection Moulding	melt temperature 250-270 °C mould temperature 60-100 °C
Storage	dry, protected from light

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	3100 / -	MPa	ISO 178
Flexural Stress (3.5% Strain)	95 / -	MPa	ISO 178
Tensile Modulus	3400 / -	MPa	ISO 527
Tensile Stress at Yield	75 / -	MPa	ISO 527
Tensile Elongation at Yield	3.5 / -	%	ISO 527
Tensile Elongation at Break	10 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	65 / -	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	65 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	3.5 / -	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4 / -	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	70 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	1 - 1.2	%	ISO 294-4
Shrinkage (lateral, 24h)	1.2 - 1.4	%	ISO 294-4
Physical Properties			
Density	1170 / -	kg/m³	ISO 1183

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+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

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Flammability

Flammability (1.5 mm)	V-0 / *	class	UL 94
Yellow Card available	yes / *	-	-
Glow Wire (GWFI, 960°C, 1.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 960°C, 2.0mm)	passed	-	DIN EN 60695
Glow Wire (GWIT, 775°C, 2.0mm)	passed	-	DIN EN 60695
Glow Wire (GWIT, 875°C, 1.0mm)	passed	-	DIN EN 60695