

Technical Data Sheet



ALTECH PA6 A 1000/520 UV HV

Base Polymer	Polyamide 6
Colour	blue,white
Special Features	heat stabilised,UV stabilised,fast solidifying,high viscosity
Market Segment	building and construction
Application Area	extruded parts

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-12 h dependant on moisture content max. moisture content <0,15 %
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Processing Injection Moulding	melt temperature 250-270 °C mould temperature 60-100 °C
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Storage	dry, protected from light
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Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2800 / 850	MPa	ISO 178
Flexural Stress (3.5% Strain)	90 / 24	MPa	ISO 178
Tensile Modulus	3250 / 1100	MPa	ISO 527
Tensile Stress at Yield	84 / 43	MPa	ISO 527
Tensile Elongation at Yield	3.8 / 24	%	ISO 527
Tensile Elongation at Break	12 / 215	%	ISO 527
Impact Strength (Charpy, 23°C)	no break / 1000	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	150 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5 / 30	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	63 / *	°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	1140 / -	kg/m ³	ISO 1183