



ALTECH PA6 A 1000/318 IM

(Last update: 07.09.2023)



Base Polymer	Polyamide 6
Colour	grey
Special Features	impact modified,easy release (demoulding),heat stabilised,injection moulding grade
Market Segment	Automotive,Machinery
Typical Applications	housings,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	2300 / -	MPa	ISO 178
Flexural Stress (3.5% Strain)	74 / -	MPa	ISO 178
Tensile Modulus	2500 / -	MPa	ISO 527
Tensile Stress at Yield	66 / -	MPa	ISO 527
Tensile Elongation at Yield	3.9 / -	%	ISO 527
Tensile Elongation at Break	18 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	no break / -	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	no break / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	18 / -	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	12 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	57 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.9 - 1.1	%	ISO 294-4
Shrinkage (lateral, 24h)	1 - 1.2	%	ISO 294-4
Physical Properties			
Density	1120 / -	kg/m ³	ISO 1183

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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