

Technical Data Sheet



ALTECH PA6 ECO 1000/100

Base Polymer	Polyamide 6
Special Features	heat stabilised, contains recycled material
Market Segment	Automotive, Machinery, building and construction, sport and leisure
Application Area	injection moulded parts

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-12 h dependant on moisture content max. moisture content <0,12 %
Processing Injection Moulding	melt temperature 250-270 °C mould temperature 40-80 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2700	MPa	ISO 178
Flexural Stress (3.5% Strain)	85	MPa	ISO 178
Tensile Modulus	2900	MPa	ISO 527
Tensile Stress at Yield	75	MPa	ISO 527
Tensile Elongation at Yield	3.7	%	ISO 527
Tensile Elongation at Break	25	%	ISO 527
Impact Strength (Charpy, 23°C)	75	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5.5	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	59	°C	ISO 75-1/-2
Rheological Properties			
Shrinkage (lengthwise, 24h)	1.9 - 2.3	%	ISO 294-4
Shrinkage (lateral, 24h)	2 - 2.4	%	ISO 294-4
Physical Properties			
Density	1130	kg/m³	ISO 1183