

Technical Data Sheet



ALTECH PA6 ECO 1000/586

Base Polymer	Polyamide 6
Special Features	fast solidifying,high impact modified,high toughness,contains recycled material
Market Segment	Automotive,building and construction,various
Application Area	transport systems,energy management,various
Typical Applications	operating elements,housings,cable ties,various

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-12 h dependant on moisture content max. moisture content <0,10 %
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	1900	MPa	ISO 178
Flexural Stress (3.5% Strain)	71	MPa	ISO 178
Tensile Modulus	2150	MPa	ISO 527
Tensile Stress at Yield	50	MPa	ISO 527
Tensile Elongation at Yield	3.7	%	ISO 527
Tensile Elongation at Break	30	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	20	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	53	°C	ISO 75-1/-2
Rheological Properties			
Shrinkage (lengthwise, 24h)	1 - 1.2	%	ISO 294-4
Shrinkage (lateral, 24h)	1.2 - 1.4	%	ISO 294-4
Physical Properties			
Density	1110	kg/m ³	ISO 1183
Ecological Properties			
Global Warming Potential (GWP)	0.75	kg CO ₂ eq./kg	ISO 14040, 14044