

Technical Data Sheet



ALTECH PA6 A 2013/100

Base Polymer	Polyamide 6
Filler/Additive System	13 % glass fibres
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 <0,15 %

Processing Injection Moulding melt temperature 270-290 °C
mould temperature 80-100 °C

Storage dry, protected from light

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	4800 / 2300	MPa	ISO 178
Flexural Stress (3.5% Strain)	- / 63	MPa	ISO 178
Flexural Strength	165 / -	MPa	ISO 178
Tensile Modulus	5500 / 2700	MPa	ISO 527
Tensile Strength at Break	100 / 60	MPa	ISO 527
Tensile Elongation at Break	2.2 / 19	%	ISO 527
Impact Strength (Charpy, 23°C)	30 / 135	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	30 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	3 / 6	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	2.5 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	200 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.3 - 0.5	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1240 / -	kg/m ³	ISO 1183