

Technical Data Sheet



ALTECH PA66 ECO 2050/500 GF50

Base Polymer	Polyamide 66
Special Features	high stiffness, 50 % glass fibres
Market Segment	Automotive, Machinery, building and construction, various
Typical Applications	bearings and sliding elements, intake manifolds, various

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-12 h dependant on moisture content 0,15 % max. moisture content
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Processing Injection Moulding	melt temperature 280-300 °C mould temperature 80-120 °C
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Storage	dry, protected from light
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Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	14500 / -	MPa	ISO 178
Flexural Strength	290 / -	MPa	ISO 178
Tensile Modulus	15200 / 9200	MPa	ISO 527
Tensile Strength at Break	180 / 115	MPa	ISO 527
Tensile Elongation at Break	2.3 / 3.1	%	ISO 527
Impact Strength (Charpy, 23°C)	70 / 77	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	10 / 14	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	250 / *	°C	ISO 75-1/-2
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.5 - 0.7	%	ISO 294-4
Physical Properties			
Density	1570 / -	kg/m³	ISO 1183
Ecological Properties			
Global Warming Potential (GWP)	1.02	kg CO ₂ eq./kg	ISO 14040, 14044