

Technical Data Sheet



ALTECH PA6 A 2015/327

Base Polymer	Polyamide 6
Filler/Additive System	15 % glass fibres
Colour	black
Special Features	UV stabilised, impact modified, easy release (demoulding)
Market Segment	Automotive, building and construction
Application Area	cooling system, fuel systems, gear wheels, roller bearings, injection moulded parts
Typical Applications	oil pump parts, bearings and sliding elements, engine cover, 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 %
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Processing Injection Moulding	melt temperature 270-290 °C mould temperature 80-100 °C
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Storage	dry, protected from light
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Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	4900 / 2300	MPa	ISO 178
Flexural Strength	170 / 62	MPa	ISO 178
Tensile Modulus	5400 / 2600	MPa	ISO 527
Tensile Strength at Break	110 / 59	MPa	ISO 527
Tensile Elongation at Break	4 / 11	%	ISO 527
Impact Strength (Charpy, 23°C)	60 / 90	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	30 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	10 / 17	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	5 / -	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	195 / *	°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)	0.7 - 0.9	%	ISO 294-4
Physical Properties			
Density	1230 / -	kg/m³	ISO 1183