

Technical Data Sheet



ALTECH PA6 A 2030/606 GF30

Base Polymer	Polyamide 6
Filler/Additive System	30 % glass fibres
Colour	grey
Special Features	nucleated,processing stabilised,easy release (demoulding)
Market Segment	Automotive
Application Area	cooling system,engine and drive systems,injection moulded parts
Typical Applications	oil pump parts,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	8000 / 4700	MPa	ISO 178
Flexural Strength	205 / 120	MPa	ISO 178
Tensile Modulus	8500 / 5300	MPa	ISO 527
Tensile Strength at Break	130 / 75	MPa	ISO 527
Tensile Elongation at Break	2.5 / 6.5	%	ISO 527
Impact Strength (Charpy, 23°C)	40 / 65	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	35 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5.5 / 8.5	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	3.5 / -	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	203 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.7 - 0.9	%	ISO 294-4
Physical Properties			
Density	1350 / -	kg/m³	ISO 1183