

Technical Data Sheet



ALTECH PA6 A 3030/120 GB30 UV

Base Polymer	Polyamide 6
Filler/Additive System	30 % glass beads
Colour	black,grey
Special Features	UV stabilised,easy release (demoulding),nucleated,processing stabilised,heat stabilised
Market Segment	building and construction,Automotive,sport and leisure
Application Area	gear wheels, roller bearings,exterior parts,sports equipment
Typical Applications	functional components,housings,parts for scooters / motorcycles

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	3900 / 1300	MPa	ISO 178
Flexural Stress (3.5% Strain)	110 / -	MPa	ISO 178
Flexural Strength	- / 35	MPa	ISO 178
Tensile Modulus	4100 / 1500	MPa	ISO 527
Tensile Strength	75 / -	MPa	ISO 527
Tensile Strength at Break	- / 40	MPa	ISO 527
Tensile Elongation at Break	5.7 / 35	%	ISO 527
Impact Strength (Charpy, 23°C)	25 / 250	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	21 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	3 / 10	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	2 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	74 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	1.3 - 1.5	%	ISO 294-4
Shrinkage (lateral, 24h)	1.2 - 1.4	%	ISO 294-4
Physical Properties			
Density	1350 / -	kg/m ³	ISO 1183