

Technical Data Sheet



ALTECH PA6 A 3015/100 GK15

Base Polymer	Polyamide 6
Filler/Additive System	glass beads
Colour	black,natural color
Special Features	low warpage,heat stabilised,processing stabilised,nucleated,easy release (demoulding)
Market Segment	Automotive
Application Area	injection moulded parts,exterior parts,interior decoration / finishing,clothing / fasteners
Typical Applications	housings,functional components

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-12 h dependant on moisture content 0,15 % max. moisture content
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	3300 / 1100	MPa	ISO 178
Flexural Stress (3.5% Strain)	- / 30	MPa	ISO 178
Flexural Strength	115 / -	MPa	ISO 178
Tensile Modulus	3700 / 1300	MPa	ISO 527
Tensile Stress at Yield	- / 40	MPa	ISO 527
Tensile Strength at Break	75 / -	MPa	ISO 527
Tensile Elongation at Yield	- / 19	%	ISO 527
Tensile Elongation at Break	3.2 / 140	%	ISO 527
Impact Strength (Charpy, 23°C)	26 / 1000	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	24 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	3 / 11	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)	68 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	1.1 - 1.5	%	ISO 294-4
Shrinkage (lateral, 24h)	1.1 - 1.5	%	ISO 294-4
Physical Properties			
Density	1230 / -	kg/m ³	ISO 1183