

Technical Data Sheet



ALTECH PA6 A 2015/109 GF15

Base Polymer	Polyamide 6
Filler/Additive System	15 % glass fibres
Colour	black,beige,brown,blue,natural color,grey,red,white,yellow
Special Features	heat stabilised,easy release (demoulding),easy flow,fast solidifying
Typical Applications	housings,various
Approvals	GS93016

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	5500 / 2450	MPa	ISO 178
Flexural Strength	170 / 90	MPa	ISO 178
Tensile Modulus	5700 / 3000	MPa	ISO 527
Tensile Strength at Break	115 / 65	MPa	ISO 527
Tensile Elongation at Break	2.6 / 7.1	%	ISO 527
Impact Strength (Charpy, 23°C)	33 / 70	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	30 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5 / 12	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)	200 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.2 - 0.4	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1240 / -	kg/m³	ISO 1183
Flammability			
Flammability (0.75 mm)	HB / *	class	UL 94
Yellow Card available	yes / *	-	-

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Diagrams

Stress-Strain

