

Technical Data Sheet



ALTECH PA6 A 2030/140 GF30 FR

Base Polymer	Polyamide 6
Filler/Additive System	30 % glass fibres
Colour	grey
Special Features	halogen-free flame retardant,heat stabilised,nucleated,processing stabilised,easy release (demoulding)
Market Segment	Automotive,building and construction,Machinery,electrical and electronic
Application Area	injection moulded parts,electrical components,clothing / fasteners
Typical Applications	functional components,housings

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	8000 / -	MPa	ISO 178
Flexural Strength	148 / -	MPa	ISO 178
Tensile Modulus	9000 / -	MPa	ISO 527
Tensile Strength at Break	90 / -	MPa	ISO 527
Tensile Elongation at Break	2 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	32 / -	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	27 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	3 / -	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	3 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	204 / *	°C	ISO 75-1/-2
DSC (Melt Point)	222 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.7 - 0.9	%	ISO 294-4
Shrinkage (lateral, 24h)	0.7 - 0.9	%	ISO 294-4
Physical Properties			
Density	1490 / -	kg/m ³	ISO 1183
Flammability			
Flammability (1.5 mm)	V-2 / *	class	UL 94
Glow Wire (GWFI, 750°C, 2.0mm)	passed	-	DIN EN 60695