

Technical Data Sheet



ALTECH PA6 A 2030/320 GF30 UV WT1003-22

Base Polymer	Polyamide 6
Filler/Additive System	30 % glass fibres
Special Features	UV stabilised, injection moulding grade, heat stabilised
Market Segment	electrical and electronic, Machinery
Application Area	electrical and electronic (E&E), housings, functional components

Pre-Drying Conditions	in a dry air (dessiccant) dryer <80 °C 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 / 5200	MPa	ISO 178
Flexural Strength	240 / 155	MPa	ISO 178
Tensile Modulus	9400 / 5700	MPa	ISO 527
Tensile Strength at Break	150 / 100	MPa	ISO 527
Tensile Elongation at Break	3.7 / 8	%	ISO 527
Impact Strength (Charpy, 23°C)	95 / 95	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	65 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	13 / 17	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	9.5 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	207 / *	°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)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1420 / -	kg/m ³	ISO 1183