

Technical Data Sheet

**ALTECH PA6 A 2030/507 GF30 BK1042-20LWT**

Base Polymer	Polyamide 6
Filler/Additive System	30 % glass fibres
Special Features	heat stabilised,easy release (demoulding),injection moulding grade,laser transparent
Market Segment	various
Typical Applications	various

Pre-Drying Conditions	in a dry air (dessiccant) dryer <80 °C for 2-12 h dependant on 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	8500 / 5200	MPa	ISO 178
Flexural Strength	260 / 160	MPa	ISO 178
Tensile Modulus	9400 / 5600	MPa	ISO 527
Tensile Strength at Break	170 / 110	MPa	ISO 527
Tensile Elongation at Break	3.4 / 7.5	%	ISO 527
Impact Strength (Charpy, 23°C)	90 / 105	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	65 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	12 / 20	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	10 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	212 / *	°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)	0.5 - 0.7	%	ISO 294-4
Physical Properties			
Density	1360 / -	kg/m ³	ISO 1183
Optical Properties			
Spectral Transmission 980nm (d=1,5mm)	56.5	%	ISO 13468