

Technical Data Sheet



ALTECH PA6 A 2020/516 GF20 IM

Base Polymer	Polyamide 6
Filler/Additive System	20 % glass fibres
Colour	black
Special Features	heat stabilised,easy release (demoulding),impact modified,injection moulding grade
Market Segment	various
Typical Applications	various

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	5400 / 3000	MPa	ISO 178
Flexural Strength	170 / 95	MPa	ISO 178
Tensile Modulus	6200 / 3200	MPa	ISO 527
Tensile Strength at Break	115 / 60	MPa	ISO 527
Tensile Elongation at Break	3.7 / 7.5	%	ISO 527
Impact Strength (Charpy, 23°C)	70 / 80	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	60 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	15 / 25	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	6 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	204 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.3 - 0.5	%	ISO 294-4
Shrinkage (lateral, 24h)	0.9 - 1.1	%	ISO 294-4
Physical Properties			
Density	1250 / -	kg/m ³	ISO 1183