

Technical Data Sheet - Preliminary Product



ALTECH PA6 A 2003/712 GF3 IM UV

Base Polymer	Polyamide 6
Filler/Additive System	3 % glass fibres
Colour	grey,black
Special Features	impact modified,fast solidifying,easy release (demoulding),UV stabilised,processing stabilised
Market Segment	Automotive,Machinery,building and construction,sport and leisure
Application Area	injection moulded parts
Typical Applications	functional components

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 250-270 °C mould temperature 40-80 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2300	MPa	ISO 178
Flexural Strength	85	MPa	ISO 178
Tensile Modulus	2700	MPa	ISO 527
Tensile Strength at Break	55	MPa	ISO 527
Tensile Elongation at Break	15	%	ISO 527
Impact Strength (Charpy, 23°C)	100	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	10	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	186	°C	ISO 306
HDT / A (1,8 MPa)	60	°C	ISO 75-1/-2
DSC (Melt Point)	221	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	1 - 1.2	%	ISO 294-4
Shrinkage (lateral, 24h)	1.5 - 1.7	%	ISO 294-4
Physical Properties			
Density	1120	kg/m ³	ISO 1183