

Technical Data Sheet



ALTECH PA66 A 2050/109 GF50

Base Polymer	Polyamide 66
Filler/Additive System	50 % glass fibres
Colour	black,natural color
Special Features	easy release (demoulding),slip agent,heat stabilised
Market Segment	Automotive,Machinery
Application Area	exterior parts,interior decoration / finishing,engine and drive systems
Typical Applications	housings,different automotive powertrain parts

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 280-300 °C mould temperature 80-120 °C
-------------------------------	--

Storage	dry, protected from light
---------	---------------------------

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	15000 / 11000	MPa	ISO 178
Flexural Strength	330 / 250	MPa	ISO 178
Tensile Modulus	15500 / 12000	MPa	ISO 527
Tensile Strength at Break	215 / 165	MPa	ISO 527
Tensile Elongation at Break	2.6 / 3.5	%	ISO 527
Impact Strength (Charpy, 23°C)	80 / 85	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	67 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	12 / 18	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)	260 / *	°C	ISO 75-1/-2
DSC (Melt Point)	265 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.7 - 0.9	%	ISO 294-4
Physical Properties			
Density	1560 / -	kg/m ³	ISO 1183
Flammability			
Flammability (0.75 mm)	HB / *	class	UL 94
Yellow Card available	yes / *	-	-