

Technical Data Sheet



ALTECH PA66 A 4040/100 MR40

Base Polymer	Polyamide 66
Filler/Additive System	40 % mineral
Colour	black,natural color
Special Features	easy release (demoulding),heat stabilised
Market Segment	Automotive,Machinery,building and construction,sport and leisure
Application Area	injection moulded parts,housings,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 %
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Processing Injection Moulding	melt temperature 280-300 °C mould temperature 80-120 °C
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Storage	dry, protected from light
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Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	6400 / 3500	MPa	ISO 178
Flexural Stress (3.5% Strain)	145 / -	MPa	ISO 178
Flexural Strength	- / 95	MPa	ISO 178
Tensile Modulus	6700 / 3200	MPa	ISO 527
Tensile Strength at Break	95 / 70	MPa	ISO 527
Tensile Elongation at Break	5.4 / 15	%	ISO 527
Impact Strength (Charpy, 23°C)	85 / 200	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	60 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	4 / 7	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	3.5 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	180 / *	°C	ISO 75-1/-2
DSC (Melt Point)	263 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	1.1 - 1.5	%	ISO 294-4
Shrinkage (lateral, 24h)	1.2 - 1.6	%	ISO 294-4
Physical Properties			
Density	1470 / -	kg/m ³	ISO 1183