

Technical Data Sheet



ALTECH PA6 A 4012/500 MR12

MOCOM

Base Polymer	Polyamide 6
Filler/Additive System	12 % mineral
Colour	grey, white
Special Features	heat stabilised, low warpage, processing stabilised, nucleated, easy release (demoulding)
Market Segment	electrical and electronic
Application Area	injection moulded parts, electrical components
Typical Applications	housings, various, functional components, handles

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-12 h dependant on moisture content 0,15 % max. 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	3800 / -	MPa	ISO 178
Flexural Stress (3.5% Strain)	115 / -	MPa	ISO 178
Tensile Modulus	4300 / -	MPa	ISO 527
Tensile Stress at Yield	85 / -	MPa	ISO 527
Tensile Elongation at Yield	3.3 / -	%	ISO 527
Tensile Elongation at Break	9.5 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	140 / -	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	85 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	4 / -	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)	75 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	1.2 - 1.6	%	ISO 294-4
Shrinkage (lateral, 24h)	1.1 - 1.5	%	ISO 294-4
Physical Properties			
Density	1260 / -	kg/m ³	ISO 1183