Technical Data Sheet

Altech®

MOCOM

ALTECH PA66 A 1000/310 IM

Base Polymer	Polyamide 66
Colour	natural color,black,white
Special Features	heat stabilised,low temperature impact modified,easy flow,easy release (demoulding)
Market Segment	Automotive,Machinery
Application Area	injection moulded parts
Typical Applications	housings,various,injection moulded parts,cable guides,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 270-290 °C mould temperature 60-100 °C
Storage	dry, protected from light

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2000 / 900	MPa	ISO 178
Flexural Stress (3.5% Strain)	65 / 25	MPa	ISO 178
Tensile Modulus	2200 / 950	MPa	ISO 527
Tensile Stress at Yield	55 / 35	MPa	ISO 527
Tensile Elongation at Yield	4.5 / 18	%	ISO 527
Tensile Elongation at Break	30 / 175	%	ISO 527
Impact Strength (Charpy, 23°C)	no break / 1000	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	no break / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	60 / 100	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	18 / -	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	70 / *	°C	ISO 75-1/-2
DSC (Melt Point)	265 / *	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	30 / *	cm³/10min	ISO 1133
MVR temperature	275 / *	°C	-
MVR load	5 / *	kg	-
Shrinkage (lengthwise, 24h)	1.5 - 1.9	%	ISO 294-4
Shrinkage (lateral, 24h)	1.5 - 1.9	%	ISO 294-4
Physical Properties			
Density	1100 / -	kg/m³	ISO 1183