

Technical Data Sheet

 **Altech® ECO**
 **MOCOM**
ALTECH PA6 ECO 4230/100.02 GF10 MR20

Base Polymer	Polyamide 6
Filler/Additive System	10 % glass fibres, 20 % mineral
Special Features	heat stabilised, good flow, low warpage, high surface quality
Typical Applications	engine cover, housings
Approvals	GS93016

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 80-100 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	6700	MPa	ISO 178
Flexural Strength	130	MPa	ISO 178
Tensile Modulus	7300	MPa	ISO 527
Tensile Strength at Break	90	MPa	ISO 527
Tensile Elongation at Break	2.6	%	ISO 527
Impact Strength (Charpy, 23°C)	45	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	195	°C	ISO 75-1/-2
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.3 - 0.5	%	ISO 294-4
Shrinkage (lateral, 24h)	0.3 - 0.5	%	ISO 294-4
Physical Properties			
Density	1370	kg/m ³	ISO 1183
Ecological Properties			
Global Warming Potential (GWP)	0.41	kg CO ₂ eq./kg	ISO 14040, 14044