

Technical Data Sheet



ALTECH PA6 ECO 4230/100 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
Market Segment	Automotive
Typical Applications	engine cover, housings

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	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	5900 / 2400	MPa	ISO 178
Flexural Stress (3.5% Strain)	- / 55	MPa	ISO 178
Flexural Strength	160 / -	MPa	ISO 178
Tensile Modulus	6700 / 2800	MPa	ISO 527
Tensile Strength at Break	90 / 45	MPa	ISO 527
Tensile Elongation at Break	3 / 16	%	ISO 527
Impact Strength (Charpy, 23°C)	45 / 60	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	4.5 / 7	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	190 / *	°C	ISO 75-1/-2
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.3 - 0.5	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1360 / -	kg/m ³	ISO 1183
Ecological Properties			
Global Warming Potential (GWP)	0.31	kg CO ₂ eq./kg	ISO 14040, 14044