

Technical Data Sheet



ALTECH PA6 A 4230/540 MR20 GF10 FR

Base Polymer	Polyamide 6
Filler/Additive System	30 % glass fibre/mineral, flame retardant
Colour	natural color
Special Features	heat stabilised, low warpage, injection moulding grade, halogen-free flame retardant
Market Segment	Automotive, electrical and electronic
Application Area	electrical and electronic (E&E), electrical components, exterior parts, interior decoration / finishing
Typical Applications	functional components, housings, lamp covers

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	7500 / -	MPa	ISO 178
Flexural Strength	120 / -	MPa	ISO 178
Tensile Modulus	7800 / -	MPa	ISO 527
Tensile Strength at Break	75 / -	MPa	ISO 527
Tensile Elongation at Break	2 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	25 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	4 / -	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	200 / *	°C	ISO 75-1/-2
DSC (Melt Point)	222 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.3 - 0.5	%	ISO 294-4
Shrinkage (lateral, 24h)	0.7 - 0.9	%	ISO 294-4
Physical Properties			
Density	1490 / -	kg/m³	ISO 1183
Flammability			
Flammability (0.75 mm)	V-0 / *	class	UL 94