

Technical Data Sheet



ALTECH PP-H A 2045/500

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	45 % glass fibres
Colour	natural color
Special Features	heat stabilised, extrusion grade, low emission, processing stabilised
Market Segment	building and construction, sport and leisure
Application Area	injection moulded parts, sports equipment, exterior parts
Typical Applications	functional components, housings

Pre-Drying Conditions	in an air circulating dryer 80-120 °C for 2-4 h in a dry air (dessiccant) dryer 80-120 °C for 2-3 h dependant on moisture content max. moisture content <0,10 %
Processing Injection Moulding	melt temperature 200-250 °C mould temperature 20-70 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	7800	MPa	ISO 178
Flexural Strength	90	MPa	ISO 178
Tensile Modulus	8600	MPa	ISO 527
Tensile Strength at Break	67	MPa	ISO 527
Tensile Elongation at Break	1.4	%	ISO 527
Impact Strength (Charpy, 23°C)	20	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	7	kJ/m²	ISO 179/1eA
Thermal Properties			
Vicat B50	114	°C	ISO 306
HDT / A (1,8 MPa)	147	°C	ISO 75-1/-2
DSC (Melt Point)	168	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	2	cm³/10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	0.2 - 0.4	%	ISO 294-4
Shrinkage (lateral, 24h)	0.3 - 0.5	%	ISO 294-4
Physical Properties			
Density	1270	kg/m³	ISO 1183