

Technical Data Sheet



ALTECH PP-B A 4920/500 MR20

Base Polymer	Polypropylene Heterophasic Copolymer
Filler/Additive System	20 % talcum
Special Features	heat stabilised,easy flow,processing stabilised,easy release (demoulding)
Market Segment	Automotive,sport and leisure,building and construction
Application Area	gardening tools,exterior parts,interior decoration / finishing,clothing / fasteners,sports equipment
Typical Applications	housings,functional components,fixing elements
Approvals	GS93016

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
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Processing Injection Moulding	melt temperature 200-250 °C mould temperature 20-70 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress (3.5% Strain)	36	MPa	ISO 178
Tensile Modulus	2000	MPa	ISO 527
Tensile Stress at Yield	23	MPa	ISO 527
Tensile Elongation at Yield	3.6	%	ISO 527
Tensile Elongation at Break	20	%	ISO 527
Impact Strength (Charpy, 23°C)	85	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	30	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	6	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	2	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	75	°C	ISO 306
HDT / A (1,8 MPa)	72	°C	ISO 75-1/-2
DSC (Melt Point)	163	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	20	cm ³ /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	0.9 - 1.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.5 - 0.9	%	ISO 294-4
Physical Properties			
Density	1030	kg/m ³	ISO 1183