

Technical Data Sheet



ALTECH PP-H A 4920/106 MR20

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	20 % talcum
Colour	black,natural color
Special Features	heat stabilised,easy release (demoulding),processing stabilised
Market Segment	Automotive,electrical and electronic
Application Area	injection moulded parts,power tools,interior decoration / finishing,clothing / fasteners
Typical Applications	housings,functional components

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 %
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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	2700	MPa	ISO 178
Flexural Stress (3.5% Strain)	46	MPa	ISO 178
Tensile Modulus	2400	MPa	ISO 527
Tensile Stress at Yield	34	MPa	ISO 527
Tensile Elongation at Yield	5	%	ISO 527
Tensile Elongation at Break	18	%	ISO 527
Impact Strength (Charpy, 23°C)	60	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	15	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	4.5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	1.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	100	°C	ISO 306
HDT / A (1,8 MPa)	75	°C	ISO 75-1/-2
DSC (Melt Point)	165	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	4	cm ³ /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	1.4 - 1.8	%	ISO 294-4
Shrinkage (lateral, 24h)	1 - 1.2	%	ISO 294-4
Physical Properties			
Density	1040	kg/m ³	ISO 1183