

Technical Data Sheet



ALTECH PP-H A 4920/200 TV20

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	20 % talcum
Colour	black
Special Features	good flow, low warpage, easy release (demoulding), slip agent
Market Segment	electrical and electronic, building and construction, sport and leisure
Application Area	injection moulded parts, interior decoration / finishing, clothing / fasteners
Typical Applications	housings, functional components, different automotive powertrain parts

Pre-Drying Conditions	in a dry air (dessiccant) dryer 80-120 °C for 2-3 h in an air circulating dryer 80-120 °C for 2-4 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	2900	MPa	ISO 178
Flexural Stress (3.5% Strain)	46	MPa	ISO 178
Tensile Modulus	2500	MPa	ISO 527
Tensile Stress at Yield	30	MPa	ISO 527
Tensile Elongation at Yield	4.6	%	ISO 527
Tensile Elongation at Break	20	%	ISO 527
Impact Strength (Charpy, 23°C)	30	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	13	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	3	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	2	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	95	°C	ISO 306
HDT / A (1,8 MPa)	74	°C	ISO 75-1/-2
DSC (Melt Point)	163	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	11	cm ³ /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	1.4 - 1.6	%	ISO 294-4
Shrinkage (lateral, 24h)	1 - 1.2	%	ISO 294-4
Physical Properties			
Density	1070	kg/m ³	ISO 1183