

Technical Data Sheet



ALTECH PP-H A 4920/109 TV20

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	20 % talcum
Colour	black,grey,natural color,red,white
Special Features	high heat stabilised,high stiffness,UL-Listing,processing stabilised,easy release (demoulding)
Market Segment	electrical and electronic,Automotive
Application Area	electrical components,interior decoration / finishing,exterior parts
Typical Applications	housings,functional components,different automotive powertrain parts,radiator grilles,fans

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	2800	MPa	ISO 178
Flexural Stress (3.5% Strain)	48	MPa	ISO 178
Tensile Modulus	2800	MPa	ISO 527
Tensile Stress at Yield	35	MPa	ISO 527
Tensile Elongation at Yield	5.4	%	ISO 527
Tensile Elongation at Break	25	%	ISO 527
Impact Strength (Charpy, 23°C)	70	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)	166	°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)	1.5 - 1.9	%	ISO 294-4

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Shrinkage (lateral, 24h)	0.9 - 1.1	%	ISO 294-4
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Physical Properties

Density	1060	kg/m ³	ISO 1183
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Flammability

Flammability (1.5 mm)	HB	class	UL 94
Yellow Card available	yes	-	-