

Technical Data Sheet



ALTECH PP-H FC 4920/100 MR20

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	20 % talcum
Special Features	easy release (demoulding), processing stabilised, heat stabilised, food contact
Market Segment	building and construction, packaging
Application Area	injection moulded parts, domestic appliances, interior decoration / finishing
Typical Applications	bezels, 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
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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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Minimum Shelf Life	months <24
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	3000	MPa	ISO 178
Flexural Stress (3.5% Strain)	47	MPa	ISO 178
Tensile Modulus	2800	MPa	ISO 527
Tensile Stress at Yield	35	MPa	ISO 527
Tensile Elongation at Yield	5	%	ISO 527
Tensile Elongation at Break	35	%	ISO 527
Impact Strength (Charpy, 23°C)	75	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	103	°C	ISO 306
HDT / A (1,8 MPa)	81	°C	ISO 75-1/-2
DSC (Melt Point)	168	°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)	0.7 - 1	%	ISO 294-4
Shrinkage (lateral, 24h)	1.2 - 1.5	%	ISO 294-4
Physical Properties			
Density	1040	kg/m ³	ISO 1183