

Technical Data Sheet



ALTECH PP-H FC 4940/100 TV40

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	40 % talcum
Colour	natural color
Special Features	high stiffness,high heat stabilised,processing stabilised,easy release (demoulding)
Market Segment	electrical and electronic,building and construction,Personal care
Application Area	household goods,food contact,domestic appliances,electrical components
Typical Applications	kitchenware,functional components,housings

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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Minimum Shelf Life	months <24
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	5100	MPa	ISO 178
Flexural Stress (3.5% Strain)	59	MPa	ISO 178
Tensile Modulus	4700	MPa	ISO 527
Tensile Stress at Yield	33	MPa	ISO 527
Tensile Elongation at Yield	3	%	ISO 527
Tensile Elongation at Break	6.5	%	ISO 527
Impact Strength (Charpy, 23°C)	26	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	12	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	2.5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	1.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	105	°C	ISO 306
DSC (Melt Point)	166	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	3.5	cm ³ /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	1 - 1.4	%	ISO 294-4

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Shrinkage (lateral, 24h)	0.8 - 1.2	%	ISO 294-4
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Physical Properties

Density	1230	kg/m ³	ISO 1183
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