Technical Data Sheet

ALTECH PP-H FC 4940/500 TV 40

(Last update: 02.06.2020)

M COM

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	40 % talcum
Colour	natural color
Special Features	high toughness,easy release (demoulding)
Market Segment	packaging,building and construction
Application Area	food contact,toys,domestic appliances
Typical Applications	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 %
Processing Injection Moulding	melt temperature 200-250 °C mould temperature 20-70 °C
Storage	dry, protected from light
Minimum Shelf Life	months <24

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	4000	MPa	ISO 178
Tensile Modulus	3600	MPa	ISO 527
Tensile Stress at Yield	32	MPa	ISO 527
Tensile Elongation at Yield	3	%	ISO 527
Tensile Elongation at Break	8	%	ISO 527
Impact Strength (Charpy, 23°C)	20	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	10	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	2.5	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	2	kJ/m²	ISO 179/1eA
Thermal Properties			
Vicat B50	100	°C	ISO 306
HDT / A (1,8 MPa)	88	°C	ISO 75-1/-2
DSC (Melt Point)	163	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	12	cm³/10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-

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Physical Properties

Density	1190	kg/m³	ISO 1183

Additional Information

Different color matches of this material can have significant influence on the suitability according to the various food contact directives (e.g. FDA or EU). Please request a compliance confirmation per colorcode regarding the suitability for the specific food contact application.

Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

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