

Technical Data Sheet



ALTECH PP-H FC 4920/700.01 MR20

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	talcum
Special Features	easy release (demoulding), heat stabilised, food contact
Market Segment	food processing industry, electrical and electronic
Typical Applications	domestic appliances, food contact

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
-----------------------	--

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	3100	MPa	ISO 178
Flexural Stress (3.5% Strain)	56	MPa	ISO 178
Tensile Modulus	2700	MPa	ISO 527
Tensile Stress at Yield	36	MPa	ISO 527
Tensile Elongation at Yield	4.7	%	ISO 527
Tensile Elongation at Break	15	%	ISO 527
Impact Strength (Charpy, 23°C)	40	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	15	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	104	°C	ISO 306
HDT / A (1,8 MPa)	78	°C	ISO 75-1/-2
DSC (Melt Point)	163	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	20	cm ³ /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	1.1 - 1.5	%	ISO 294-4
Shrinkage (lateral, 24h)	1.2 - 1.6	%	ISO 294-4
Physical Properties			
Density	1040	kg/m ³	ISO 1183