

Technical Data Sheet



ALTECH PP-H A 1000/249 FR

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	flame retardant
Colour	natural color
Special Features	metal deactivator (stabiliser),easy flow,flame retardant,easy release (demoulding)
Market Segment	building and construction,electrical and electronic
Application Area	injection moulded parts,electrical components
Typical Applications	housings,functional components,fixing elements

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 200-240 °C mould temperature 20-70 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	1600	MPa	ISO 178
Flexural Stress (3.5% Strain)	38	MPa	ISO 178
Tensile Modulus	1600	MPa	ISO 527
Tensile Stress at Yield	35	MPa	ISO 527
Tensile Elongation at Yield	8.7	%	ISO 527
Tensile Elongation at Break	14	%	ISO 527
Impact Strength (Charpy, 23°C)	75	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	2.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	94	°C	ISO 306
HDT / A (1,8 MPa)	59	°C	ISO 75-1/-2
DSC (Melt Point)	163	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	27	cm ³ /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	1.2 - 1.4	%	ISO 294-4
Shrinkage (lateral, 24h)	1.6 - 2	%	ISO 294-4

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Physical Properties

Density	910	kg/m³	ISO 1183
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Flammability

Flammability (0.75 mm)	HB	class	UL 94
Yellow Card available	yes	-	-