

Technical Data Sheet



ALTECH PP-H A 2020/554.01 CP FR GF20

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	20 % glass fibres
Special Features	halogen-free flame retardant,chemically coupled,heat stabilised,flame retardant
Market Segment	Automotive,electrical and electronic
Typical Applications	housings,fixing elements,bezels

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
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Processing Injection Moulding	melt temperature 200-240 °C mould temperature 20-70 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	5500	MPa	ISO 178
Flexural Strength	115	MPa	ISO 178
Tensile Modulus	6200	MPa	ISO 527
Tensile Strength at Break	70	MPa	ISO 527
Tensile Elongation at Break	3.4	%	ISO 527
Impact Strength (Charpy, 23°C)	38	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	30	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	8.5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	6.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	135	°C	ISO 306
HDT / A (1,8 MPa)	149	°C	ISO 75-1/-2
DSC (Melt Point)	166	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	5	cm ³ /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	0.2 - 0.4	%	ISO 294-4
Shrinkage (lateral, 24h)	0.4 - 0.6	%	ISO 294-4
Physical Properties			
Density	1200	kg/m ³	ISO 1183

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Flammability

Flammability (0.75 mm)	V-2	class	UL 94
Flammability (1.5 mm)	V-0	class	UL 94
Glow Wire (GWFI, 750°C, 1.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 750°C, 2.0mm)	passed	-	DIN EN 60695