

Technical Data Sheet



ALTECH PP-H A 2020/159 GF20 CP

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	20 % glass fibres
Colour	black,green,grey,natural color
Special Features	chemically coupled,high stiffness,high toughness
Market Segment	Automotive,building and construction,various
Application Area	engine and drive systems,transport systems,various,injection moulded parts
Typical Applications	housings,operating elements,various

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 200-250 °C mould temperature 20-70 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	3800	MPa	ISO 178
Flexural Strength	95	MPa	ISO 178
Tensile Modulus	4500	MPa	ISO 527
Tensile Strength at Break	70	MPa	ISO 527
Tensile Elongation at Break	4	%	ISO 527
Impact Strength (Charpy, 23°C)	50	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	40	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	10	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	6.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	130	°C	ISO 306
HDT / A (1,8 MPa)	135	°C	ISO 75-1/-2
DSC (Melt Point)	166	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	2.5	cm ³ /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	0.4 - 0.6	%	ISO 294-4
Shrinkage (lateral, 24h)	0.4 - 0.6	%	ISO 294-4

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Physical Properties

Density	1050	kg/m ³	ISO 1183
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Flammability

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