

ALTECH PP-H A 2020/159 GF20 CP

(Last update: 12.10.2016)

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	20 % glass fibres
Special Features	chemically coupled,high stiffness,high toughness
Market Segment	Automotive,Building and Construction,various
Application Area	engine and drive systems,transport systems,various
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

Processing Conditions injection moulding melt temperature 200-270 °C
 injection moulding mould temperature 20-90 °C

Storage dry, protected from light
 not above 30°C

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural strength	95	MPa	ISO 178
Tensile modulus	4500	MPa	ISO 527-1/-2
Tensile strength at break	70	MPa	ISO 527-1/-2
Tensile elongation at break	4	%	ISO 527-1/-2
Charpy notched impact 1eA	10	kJ/m ²	ISO 179/1eA
Charpy notched impact 1eA -40°C	8	kJ/m ²	ISO 179/1eA
Charpy impact strength 1eU	50	kJ/m ²	ISO 179/1eU
Charpy impact strength 1eU -40°C	40	kJ/m ²	ISO 179/1eU
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			
MVR	3	cm ³ /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
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	-	-

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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