

**ALTECH PP-H A 2040/159 GF40 CP**

(Last update: 17.02.2025)

**MOCOM**

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	40 % glass fibres
Colour	black,blue,natural color
Special Features	chemically coupled,high toughness,high stiffness
Typical Applications	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
<b>Mechanical Properties</b>			
Flexural Modulus	7600	MPa	ISO 178
Flexural Strength	135	MPa	ISO 178
Tensile Modulus	7800	MPa	ISO 527
Tensile Strength at Break	90	MPa	ISO 527
Tensile Elongation at Break	3	%	ISO 527
Impact Strength (Charpy, 23°C)	55	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	50	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	12	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	9	kJ/m²	ISO 179/1eA
<b>Thermal Properties</b>			
Vicat B50	136	°C	ISO 306
HDT / A (1,8 MPa)	140	°C	ISO 75-1/-2
DSC (Melt Point)	166	°C	ISO 11357
<b>Rheological Properties</b>			
Melt Index (MVR)	2	cm³/10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	0.2 - 0.4	%	ISO 294-4
Shrinkage (lateral, 24h)	0.3 - 0.5	%	ISO 294-4

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#### Physical Properties

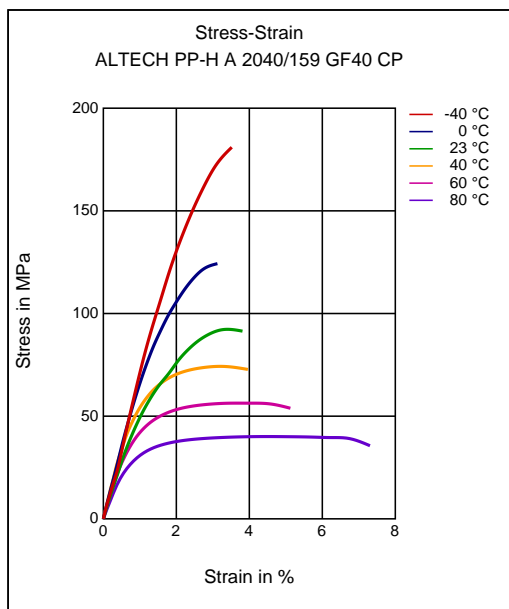
Density	1220	kg/m <sup>3</sup>	ISO 1183
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#### Flammability

Flammability (1.5 mm)	HB	class	UL 94
Yellow Card available	yes	-	-

#### Diagrams

##### Stress-Strain



#### Liability Exclusion

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.

Any information given on the chemical and physical characteristics of our products, including, without limitation, technical advice on applications, whether verbally, in writing or by testing the product, is given to the best of our knowledge and in good faith and does not exempt the buyer from carrying out their own investigations and tests in order to ascertain the product's specific suitability for the purpose intended.

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- risk class III applications according to EU directive 93/42/EEC
- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

At all times, our standard terms and conditions of sale apply.