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Excellent Qualities

In comparison with alternative synthetic materials, Hiendl NFC materials stand out above all by virtue of their excellent solidity. With over 70 N/mm², these materials can be more than twice as strong as polypropylene. With appropriate design, rigidity can reach over 5,500 N/mm², which is more than three times the value of polypropylene. By reinforcement with natural fibres, it is possible to achieve rigidity values as we know them from glass fibre reinforced polyamide.

Being very light in weight, Hiendl NFC materials recommend themselves in many cases as substitutes for aluminium. They have impressive ecological qualities, and their value for money is remarkable.

In comparison with natural source materials, in particular wood, Hiendl NFC materials convince through their superior formability. Owing to the way they are processed, their surfaces are immediately ready for use, so that no painting or coating is actually required.

Designing Individual Property Profiles

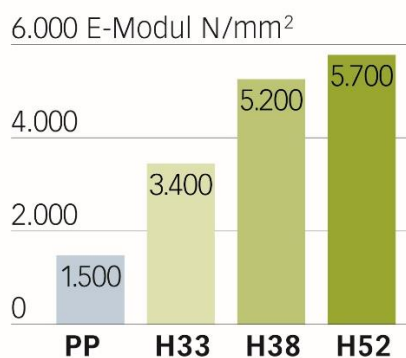
Depending on the raw materials used and on quantity ratios, Hiendl's sophisticated process technology can create a large variety of very specific property profiles. We have been doing research on the use of natural fibres such as hemp, flax, various woods and many others. The property profiles of this ground-breaking composite material is marked both by the properties of the synthetic and natural materials used as well as by the quantity ratios applied.

Comparison of Materials

	Plastics	Wood Fibres	Processing Method
PP	100%	0%	Extrusion/Injection Moulding
H33	50%	50%	Extrusion/Injection Moulding
H38	30%	70%	Extrusion
H52	30%	60%*	Extrusion

*plus additional natural fibres

**Flexural modulus
DIN EN ISO 178**



**Flexural strength
DIN EN ISO 178**

