

# BIOWERT FLAX'PP

*Flax Fibre-Reinforced Thermoplastics for Injection*

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## 5050/40000 HM

- Biowert FlaxPP 5050/40000 HM contains 50 % flax fibres and 50 % polypropylene.
- Both materials are unprocessed residuals from the automotive industry and meet automotive standard.
- Biowert FlaxPP granules can be used with any injection moulding machine and processed into moulded components such as spoons, consoles, machine cases, protective caps, etc.
- The granules can be dyed any colour.
- Ideal ease of flow for injection moulding.
- High cycle times when manufacturing complex moulded parts.
- High strength and high dimension stability.
- Suitable for printing.
- Moulded parts from Biowert FlaxPP look and feel natural.
- Processing Notes for Biowert FlaxPP 5050/40000 HM: sufficiently dry at 70 – 80 °C, heating zones of 200 °C decreasing to 170 °C, possible short-term peak melting temperature of 210 °C, moulding temperature of 40 – 50 °C, avoid frictional and shearing heat, make sure the tool is well ventilated

Property	Test Method	Unit	Value
Tensile Modulus	DIN EN ISO 527	MPa	≥ 3500
Yield Stress	DIN EN ISO 527	MPa	≥ 30
Yield Strain	DIN EN ISO 527	%	2
Bending Stress	DIN EN ISO 527	N	80
Bending Strain	DIN EN ISO 527	mm	6
Charpy Impact Strength Unnotched	DIN EN ISO 179	kJ/m <sup>2</sup>	≥ 12
Charpy Impact Strength Notched	DIN EN ISO 179	kJ/m <sup>2</sup>	4,1
Vicat Softening Point	DIN EN ISO 306 Vicat B/50	°C	120
Density	DIN EN ISO 1183	g/cm <sup>3</sup>	1,0

The values and processing notes featured here are intended solely as a guide. Users must carry out their own checks and make adjustments according to the application.