

# AgriPlast<sup>BW</sup>

Grass Fibre-Reinforced Thermoplastics for Injection Moulding and Extrusion

## NFNI 3070/40000 HM

- AgriPlast NFNI 3070/40000 HM is made up of 30% cellulose fibres obtained from meadow grass and 70% PLA (polylactic acid).
- AgriPlast<sup>BW</sup> 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 also be dyed any colour.
- Ideal ease of flow for injection moulding.  
High cycle times when manufacturing complex moulded parts.
- AgriPlast<sup>BW</sup> is lighter than comparable fibre-reinforced composite plastics.
- Fire protection without antimony and halogen.
- Recyclable and residue-free disposal when incinerated.
- Processing Notes for AgriPlast NFNI 3070/40000 HM: sufficiently dry at 70 °C, heating zones of 170 °C decreasing to 130 °C, possible short-term peak melting temperature of 180 °C, moulding temperature of 15 – 25 °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	3845
Tensile Strength	DIN EN ISO 527	MPa	34,1
Strain at Tensile Strength	DIN EN ISO 527	%	1,4
Flexural Modulus	DIN EN ISO 178	MPa	4151
Bending Strength	DIN EN ISO 178	MPa	64,9
Bending Strain at Bending Strength	DIN EN ISO 178	%	2,3
Charpy Impact Strength Unnotched	DIN EN ISO 179	kJ/m <sup>2</sup>	7,2
Charpy Impact Strength Notched	DIN EN ISO 179	kJ/m <sup>2</sup>	2,8
Vicat Softening Point	DIN EN ISO 306 Vicat B/50	°C	166
Density	DIN EN ISO 1183	g/cm <sup>3</sup>	1,28

“Certificate of Material Excellence” from *MaterialConnexion*; 2008 AVK Prize for Innovation  
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