FGFT® PLA Foaming

Item no.: PLA-FOAM-NA01-X-XX

Technical information

Description	Method	Typical value
Specific gravity unfoamed	ISO 1183	1,24 g/cc
Specific gravity foamed	ISO 1183	0,46 g/cc
MFI 210 °C/ 2,16 kg	ISO 1133	-gr/ 10 min
Tensile modulus (E)	ISO 527	3160 Mpa
Tensile strength at yield	ISO 527	54 Mpa
Tensile strength at break	ISO 527	22 Mpa
Elongation at break		
Impact strength – charpy method 23 °C	ISO 179	3,5 kJ/m2
Vicat	ISO 306	°C
Mold shrinkage		

Printing recommendations	
Pre-drying	Hot air 60°C / 6 hrs - dry air 60°C / 3 hrs
Zone 1 temperature	60°C
Zone 2 temperature	160-180°C
Zone 3 temperature	170-190°C
Zone 4 temperature	190-210°C
Mass temperature	205 °C
Die temperature	200-210°C
Max. moisture content	0,04 %

FGFT® PLA – Foaming is a foaming PLA granulate designed to reduce material consumption and component weight through expansion during processing. Optimized for large-format FGF 3D printing, it enables the production of lightweight components with reduced density and efficient material usage. Its foaming characteristics and easy post-processing make it ideal for applications where weight reduction, material efficiency, and ease of finishing are key requirements.

Material features:

- Lightweight
- Foaming effect
- Increased volume with reduced material consumption
- Dimensional stability
- Easy post-processing
- Optimized for FGF printing

Applications:

- Lightweight prototypes & models
- Large–scale decorative components
- Lightweight housings & covers
- Display & presentation models
- Large format industrial components

Additional information:

- Store cool and dry (15-25 °C)
- Available in cylindricals and UWG
- For FGF applications

All raw materials used in the production of products are in conformity with the REACH regulation (EC) no.1907/2006.
***Disclaimer:** All above-mentioned data have been carefully checked according specific testing procedures and/or based on of raw material data and experience with compatible formulations. The data are provided for informational purposes only. Therefore, no guarantee or warranty can be expected from these data. They are part of the quality and delivery specifications. The applicability of the product should be tested under local processing conditions at the converter.*

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