FGFT® PLA Impact Modified

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

Technical information

Description	Method	Typical value
Specific gravity	ISO 1183	1,20 g/cc
MFI 210 °C/ 2,16 kg	ISO 1133	8,6 gr/ 10 min
Tensile modulus (E)	ISO 527	2630 Mpa
Tensile strength at yield	ISO 527	45 Mpa
Tensile strength at break	ISO 527	15 Mpa
Elongation at break		
Impact strength – charpy method 23 °C	ISO 179	26,5 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 Impact Modified is a specially engineered PLA compound that offers enhanced toughness and impact resistance compared to standard PLA. Designed for functional parts, mechanical components, and durable prototypes, this compound combines the ease of printing with improved strength and flexibility. With PLA IM, you get a stronger, more resilient compound while still enjoying the printability and environmental benefits of traditional PLA.

Material features:

- Increased impact resistance
- More durable
- Easy to Print
- High layer adhesion
- Improved strength and reliability
- Versatile applications
- Eco-friendly

Applications:

- Functional prototypes & product developement
- Mechanical components & parts
- Housings & enclosures
- Tool, jigs & fixtures
- Durable 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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