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Data Sheet

DAHLTRAM® T-100GF

Low temperature additive manufacturing

DESCRIPTION

Dahltram® T-100GF is a cost effective, low temperature use, additive manufacturing polymer made from recycled materials with a maximum recommended use temperature of 65°C (150°F). It is reinforced with glass fibre as an economical solution for additive manufacturing. Dahltram® T-100GF is ideal for room temperature applications, rapid prototypes, functional mock ups, casting patterns, and much more. Additionally, is has been tailored for its ease of printing and low warpage, all while being sourced from 100% recycled copolyester.

BENEFITS

- Additive manufactured structures and tooling can go from conception to reality in days, not weeks.
- Dahltram® T-100GF is a cost effective solution ideal for rapid prototypes and room temperature tooling, as well as architectural and consumer applications.
- Easy to process with low warpage.
- Dahltram® T-100GF is formulated with 100% recycled copolyester as both an economical and green solution.

TECHNICAL DATA

Physicals	Typical Values	Test Method
Base Polymer	Recycled copolyester	
Reinforcements	Glass Fibre	
% Fiber Loading	30%	
Tensile Strength		
X Direction	79,3 MPa	Modified ASTM D638
Z Direction	25,9 MPa	Modified ASTM D638
Tensile Modulus		
X Direction	6,6 GPa	Modified ASTM D638
Z Direction	3,7 GPa	Modified ASTM D638
Flexural Strength		
X Direction	118,6 MPa	Modified ASTM D790
Z Direction	49,2 MPa	Modified ASTM D790
Flexural Modulus		
X Direction	6,6 GPa	Modified ASTM D790
Z Direction	3,5 GPa	Modified ASTM D790
HDT, 1,82 MPa, 3,22 mm	70°C	ASTM D648 (Annealed)
Density as Printed	1,54 g/cc	ASTM D792

*Where X is the bead print direction and Z is through the bead thickness.

SIZES

Weight	Packaging	Form
25 kg (55 lb)	Bag	Pellet
100 kg (220 lb)	Drum	Pellet
590 kg (1,300 lb)	Box	Pellet

Last updated : 2024-01-09

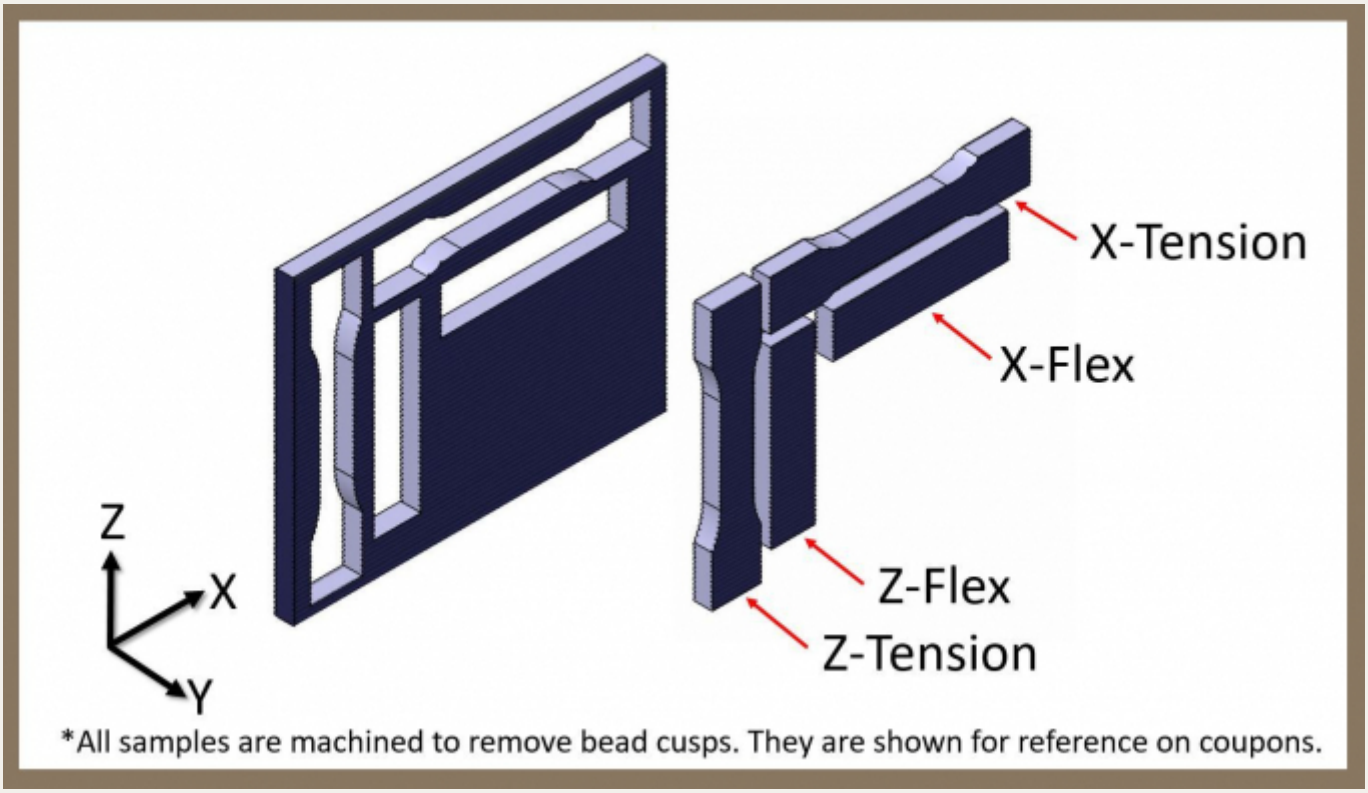
Catalogue position : Print-Tech®

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NOTES

- The maximum use temperature is dependent upon the duration at maximum temperature, and is process specific, Airtech recommends testing prior to use.
- Shelf life unlimited when stored in original packaging at 22°C.

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