AIRTECH EUROPE SARL
18, ZI Haneboesch
L-4562 Differdange
LUXEMBOURG
Phone : +352 58 22 82 1
Fax : +352 58 49 35
E-mail : sales@airtech.lu
Website : www.airtech.lu

Data Sheet

DAHLTRAM® S-150GF

Low temperature additive manufacturing

DESCRIPTION

Dahltram® S-150GF is a cost effective, low temperature use, additive manufacturing polymer with a maximum recommended use temperature of 88°C. It is reinforced with glass fibre as an economical solution for additive manufacturing. Dahltram® S-150GF is ideal for room temperature tooling solutions and low temperature master molds. Additionally, it is vacuum tight and autoclave capable in all forms and can machined to the tolerances and surface finish required.

BENEFITS

- Additive manufactured tools can go from conception to the production floor in days not weeks.
- Dahltram® S-150GF is a cost effective solution ideal for rapid prototyping, trim tools, holding fixtures, inspection fixtures, low temp masters, and much more.
- Easy to process.

TECHNICAL DATA

Physicals	Typical Values	Test Method
Base Polymer	Modified ABS	
Reinforcements	Glass Fibre	
% Fiber Loading	20%	
Tensile Strength		
X Direction	54,5 MPa (7,9 ksi)	Modified ASTM D638
Z Direction	33,4 MPa (4,9 ksi)	Modified ASTM D638
Tensile Modulus		
X Direction	4,8 GPa (0,7 Msi)	Modified ASTM D638
Z Direction	3,4 GPa (0,5 Msi)	Modified ASTM D638
Flexural Strength		
X Direction	83,4 MPa (12,1 ksi)	Modified ASTM D790
Z Direction	56,5 MPa (8,2 ksi)	Modified ASTM D790
Flexural Modulus		
X Direction	4,8 GPa (0,7 Msi)	Modified ASTM D790
Z Direction	2,8 GPa (0,4 Msi)	Modified ASTM D790
HDT, 1,82 MPa, 3,22 mm	101°C (214°F)	ASTM D648 (Annealed)
Density as Printed	1,17 g/cc (0,042 lb/in^3)	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 : 2024-02-23

Catalogue position : Print-Tech®

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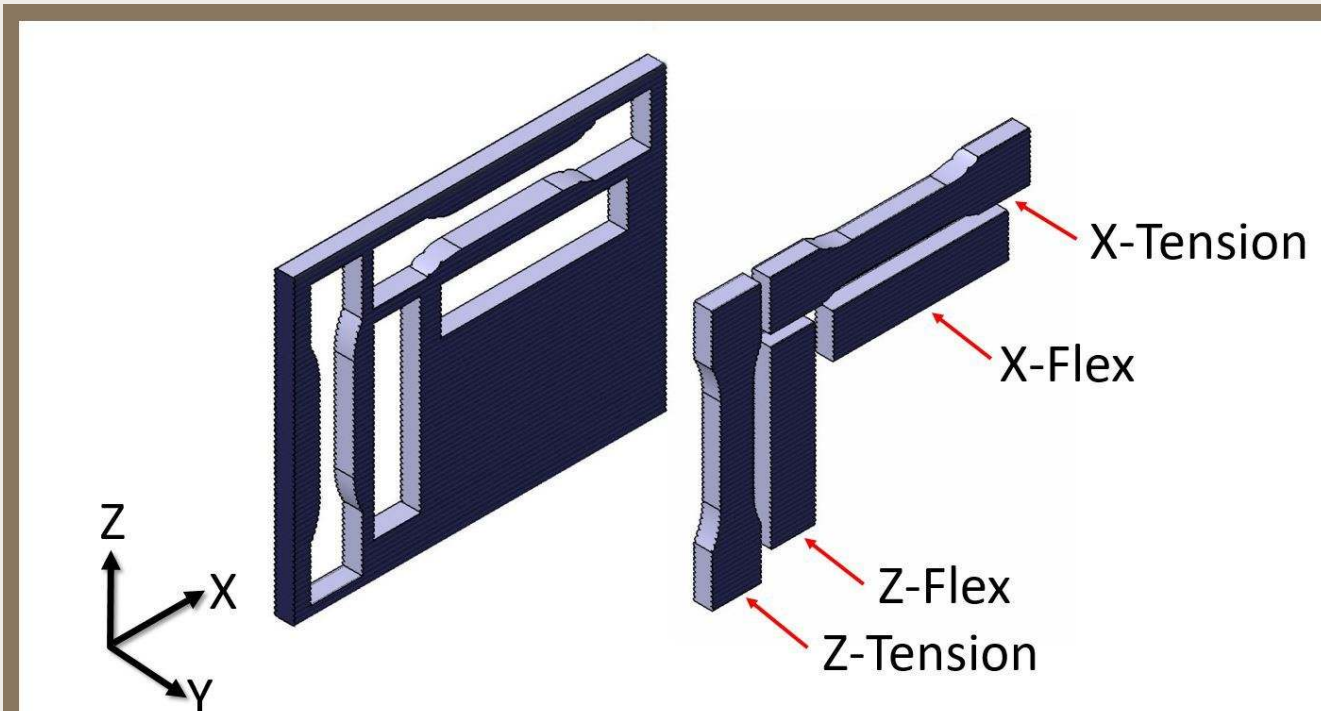

*All samples are machined to remove bead cusps. They are shown for reference on coupons.

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 (72°F).

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