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

Fiche Technique

# DAHLTRAM® S-150GF

Low temperature additive manufacturing

## DESCRIPTION

Dahltram® S-150GF is a cost effective, low temperature use, technical resin for additive manufacturing with a maximum recommended use temperature of 88°C (190°F). It is reinforced with glass fiber as an economical solution for additive manufacturing. Dahltram® S-150GF is ideal for room temperature applications, rapid prototypes, functional mockups, and low temperature tooling.

## BENEFITS

- Industrial grade glass fiber offers affordable performance with excellent impact and flexural properties.
- Dahltram® S-150GF is a cost-effective solution ideal for rapid prototyping, functional mockups, low-rate production, room temperature tooling, low temp masters, and much more.
- Easy to process, dimensionally stable, for successful first-time prints.

## TECHNICAL DATA

| Physicals | Typical Values | Test Method |
|---|---|---|
| Base Polymer | Modified ABS | |
| Reinforcements | Glass Fibre | |
| % Fibre Loading | 20% | |
| Tensile Strength | | |
| X Direction | 7.9 ksi (54.5 MPa) | Modified ASTM D638 |
| Z Direction | 4.9 ksi (33.4 MPa) | Modified ASTM D638 |
| Tensile Modulus | | |
| X Direction | 0.7 Msi (4.8 GPa) | Modified ASTM D638 |
| Z Direction | 0.5 Msi (3.4 GPa) | Modified ASTM D638 |
| Flexural Strength | | |
| X Direction | 12.1 ksi (83.4 MPa) | Modified ASTM D790 |
| Z Direction | 8.2 ksi (56.5 MPa) | Modified ASTM D790 |
| Flexural Modulus | | |
| X Direction | 0.7 Msi (4.8 GPa) | Modified ASTM D790 |
| Z Direction | 0.4 Msi (2.8 GPa) | 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 |

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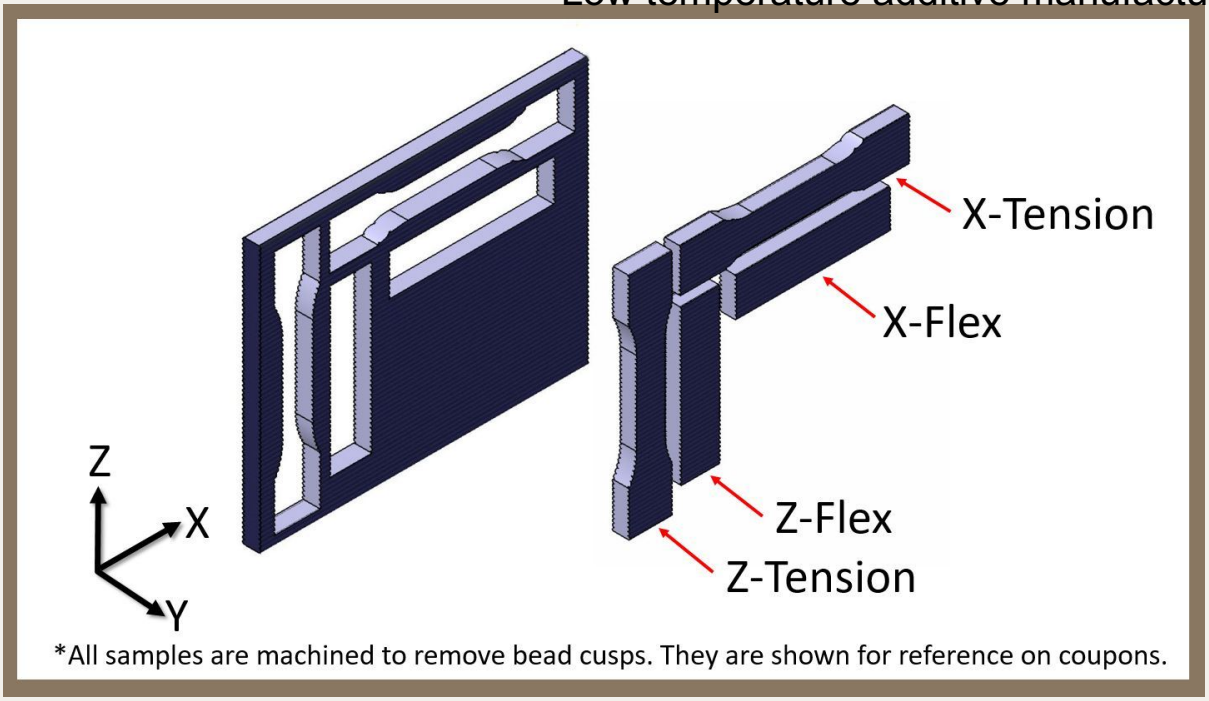
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*All samples are machined to remove bead cusps. They are shown for reference on coupons.

## SUSTAINABILITY

Can be recycled

Recyclable packaging

## NOTES

- As-printed mechanics are for 12.7mm nozzle, 21 x 5mm beads, and printed under recommended extrusion and drying conditions.
- Properties are for virgin grade material. Airtech makes no claims for material that has been reprocessed and re-extruded.
- For comprehensive thermomechanical data and processing parameters contact your Airtech account manager.
- 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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