

## 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, it 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            |

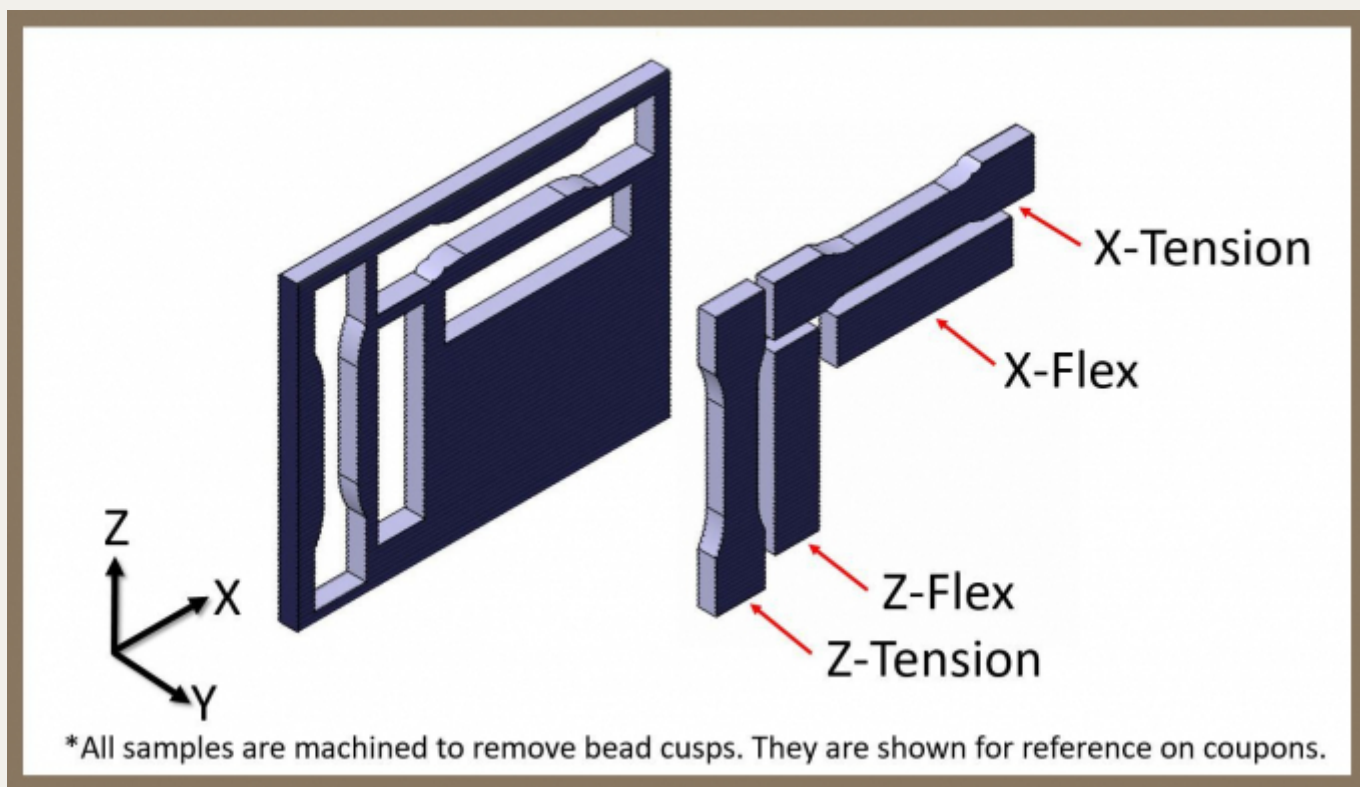
\*Where X is the bead print direction and Z is through the bead thickness.

#### SIZES

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

## Data Sheet

## DAHLTRAM® T-100GF



### 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.