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Data Sheet

# DAHLTRAM® S-150CF

Low tempertaure additive manufacturing

## DESCRIPTION

Dahltram® S-150CF is a cost effective, low temperature use, additive manufacturing polymer for use below 80°C. It is reinforced with carbon fibre for maximum strength and long term performance. Dahltram® S-150CF is ideal for room temperature tooling solutions and low temperature master moulds. 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-150CF is a cost effective solution ideal for rapid prototyping, trim tools, holding fixtures, inspection fixtures, low temp masters, and much more.
- Easy to process.
- Carbon reinforcement offers greater stiffness versus glass and low warpage for predictable results.

## TECHNICAL DATA

| Physicals | Typical Values | Test Method |
|---|---|---|
| Base Polymer | Modified ABS | |
| Reinforcements | Carbon Fibre | |
| % Fiber Loading | 20% | |
| Tensile Strength | | |
| X Direction | 81 MPa | Modified ASTM D638 |
| Z Direction | 26 MPa | Modified ASTM D638 |
| Tensile Modulus | | |
| X Direction | 11,0 GPa | Modified ASTM D638 |
| Z Direction | 3,6 GPa | Modified ASTM D638 |
| Flexural Strength | | |
| X Direction | 140 MPa | Modified ASTM D790 |
| Z Direction | 47 MPa | Modified ASTM D790 |
| Flexural Modulus | | |
| X Direction | 14,5 GPa | Modified ASTM D790 |
| Z Direction | 4,15 GPa | Modified ASTM D790 |
| HDT, 1,82 MPa, 3,22 mm | 101°C | ASTM D648 (Annealed) |
| Density | 1,14 g/cc | ASTM D792 |

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

Last updated : 2020-11-24

Catalogue position : Print-Tech®

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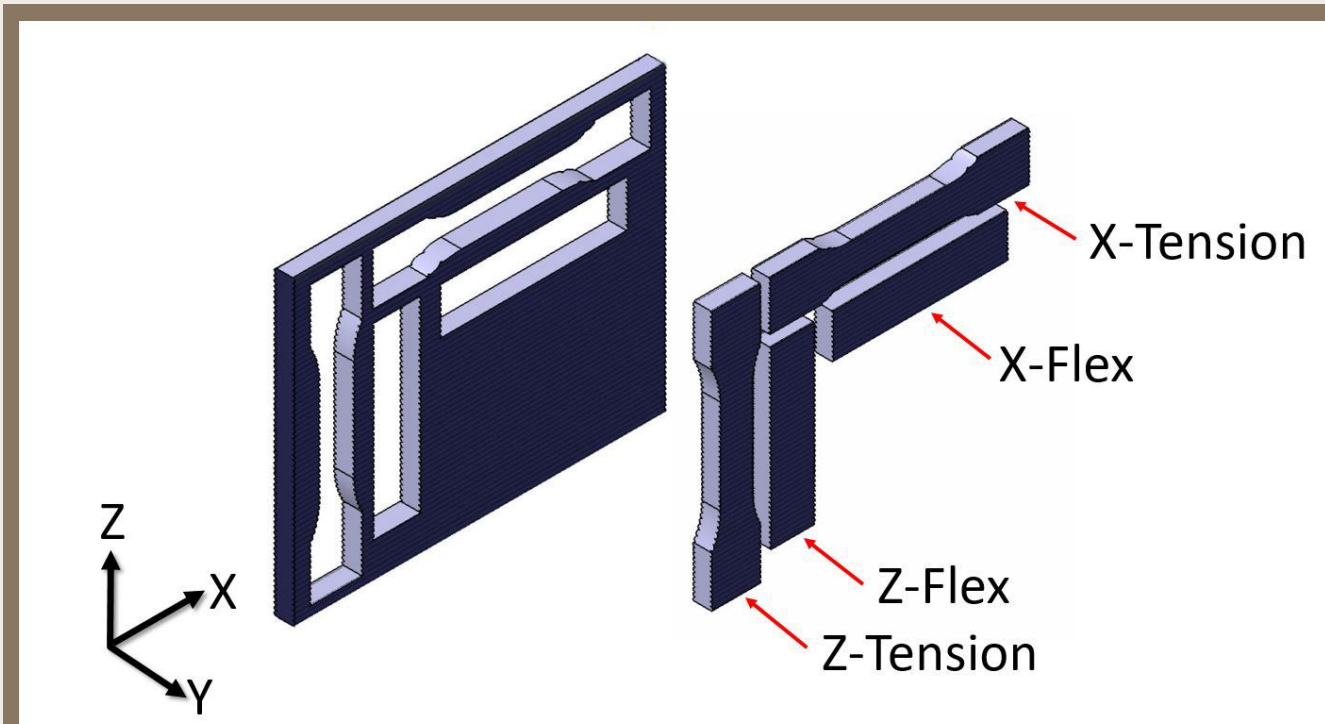


*All samples are machined to remove bead cusps. They are shown for reference on coupons.

## NOTES

- The maximum use temperature is dependent upon the duration at maximum temperature, and is process specific, Airtech recommends testing prior to use.

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