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Fiche Technique

DAHLTRAM® S-150CF

Low temperature additive manufacturing

DESCRIPTION

Dahltram® S-150CF 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 carbon fiber for maximum strength, stiffness, and long-term performance. Dahltram® S-150CF is ideal for room temperature applications, rapid prototypes, functional mockups, and low temperature tooling.

BENEFITS

- Dahltram® S-150CF is a cost-effective solution ideal for rapid prototyping, functional mockups, room temperature tooling, low temp masters, and much more.
- Easy to process, dimensionally stable, for successful first-time prints.
- 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	
% Fibre Loading	20%	
Tensile Strength		
X Direction	11.7 ksi (81 MPa)	Modified ASTM D638
Z Direction	3.8 ksi (26 MPa)	Modified ASTM D638
Tensile Modulus		
X Direction	1.6 Msi (11.0 GPa)	Modified ASTM D638
Z Direction	0.5 Msi (3.6 GPa)	Modified ASTM D638
Flexural Strength		
X Direction	20.3 ksi (140 MPa)	Modified ASTM D790
Z Direction	6.8 ksi (47 MPa)	Modified ASTM D790
Flexural Modulus		
X Direction	2.1 Msi (14.5 GPa)	Modified ASTM D790
Z Direction	0.6 Msi (4.15 GPa)	Modified ASTM D790
HDT, 1.82 MPa, 3.22 mm	101°C (214°F)	ASTM D648 (Annealed)
Density as Printed	1.11 g/cc (0.040 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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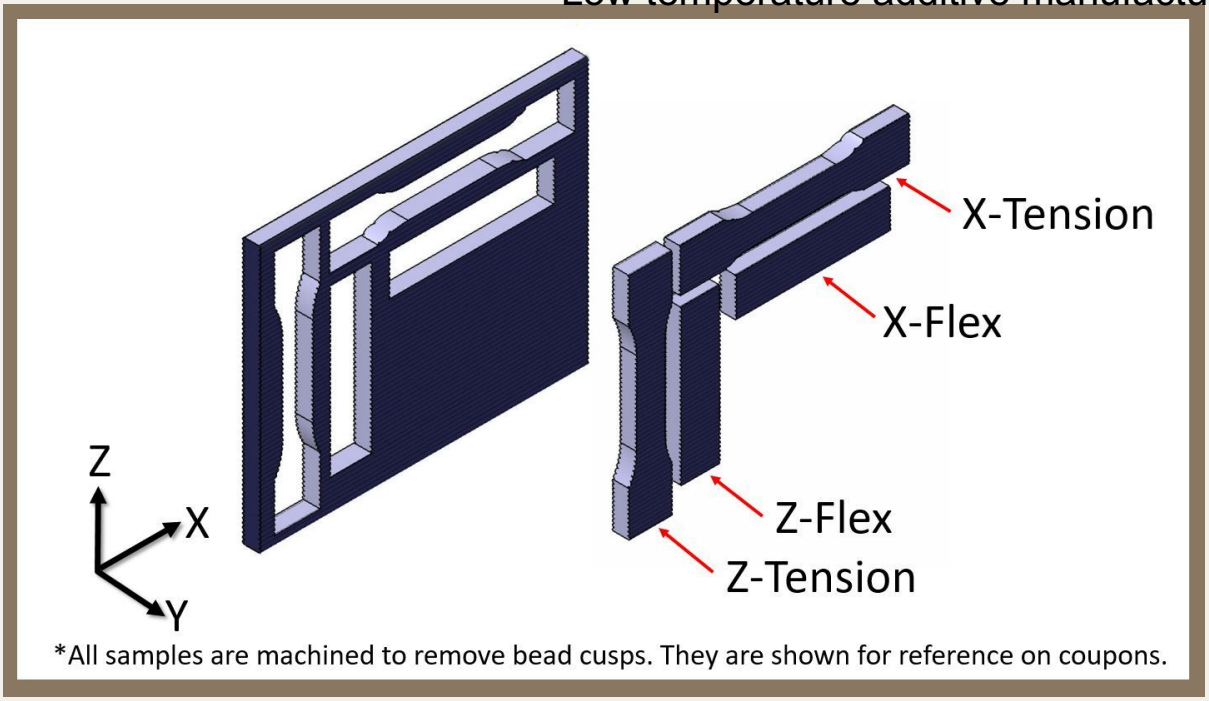

*All samples are machined to remove bead cusps. They are shown for reference on coupons.

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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