Hi-Lo® Mesh

Extreme Low Elongation Mesh For High-End Electronics Printing

SAATI HiLo is a super high modulus monofilament polyester mesh. It was developed specially for tight tolerance printing to fabricate high tech products, including touch screen panels, solar cells, and membrane switches.

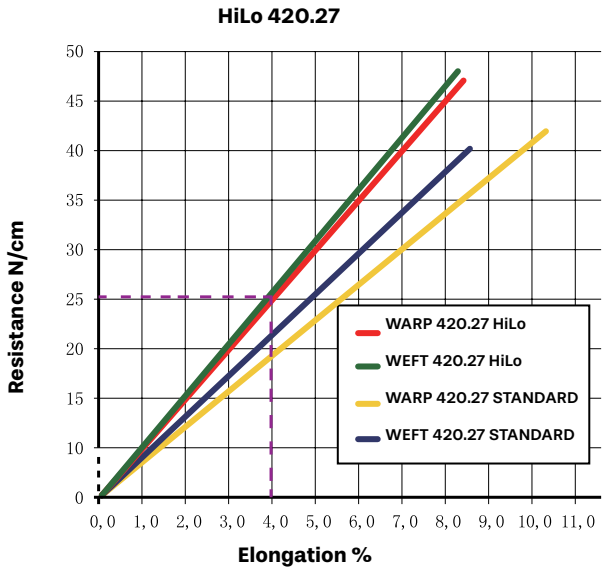
SAATI uses a special fiber whose polymeric structure gives extraordinary physical & mechanical properties to the product:

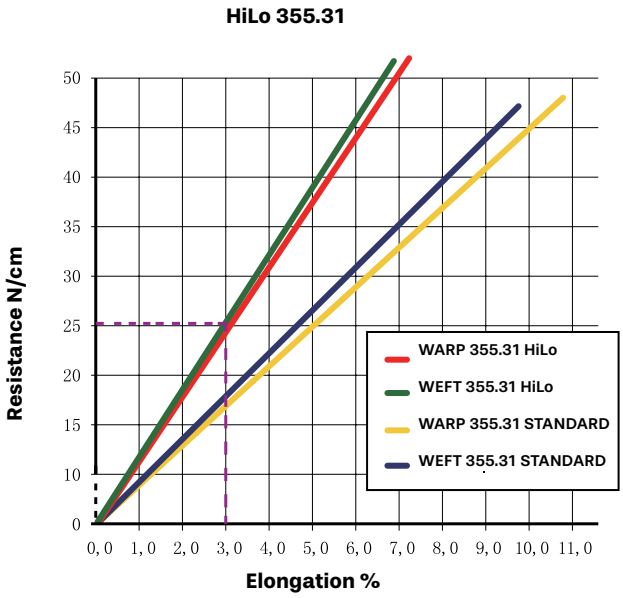
1. Higher dimensional stability
2. Extremely low mesh relaxation
3. Plasma-activated surface for enhanced stencil adhesion

Key Product Characteristics

- Top Print Quality
- Less tension loss during the print run
- Consistent performance during printing results in process reliability improvements
- Finer line Resolution
- Improved Ink Flow
- Superior Stencil Adhesion: less stencil breakdown and printing life far longer than conventionally treated fabrics

Elongation Statistics





The HiLo Warp & Weft overlapping is almost perfect. At 25N tension level the HiLo 140.31 Elongation Percentage is around 3%, whereas the 165.27 is around 4%.

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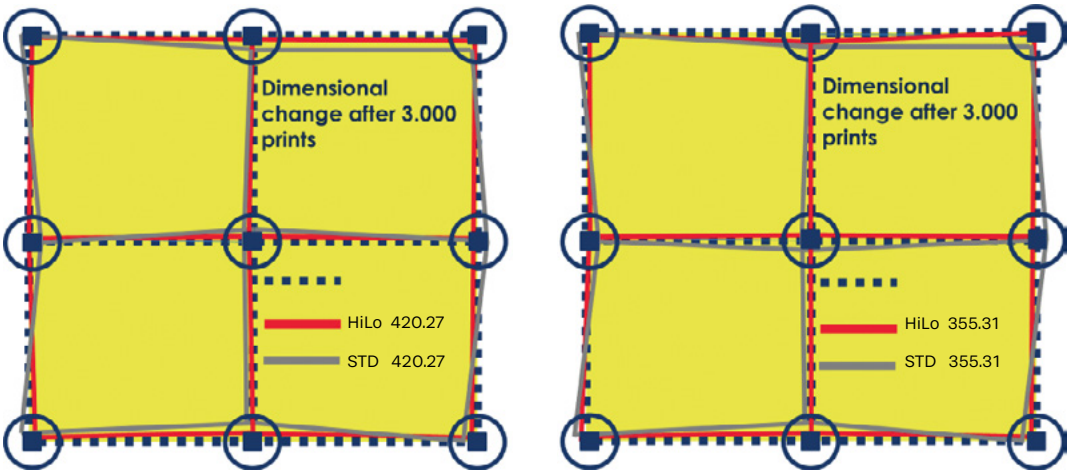
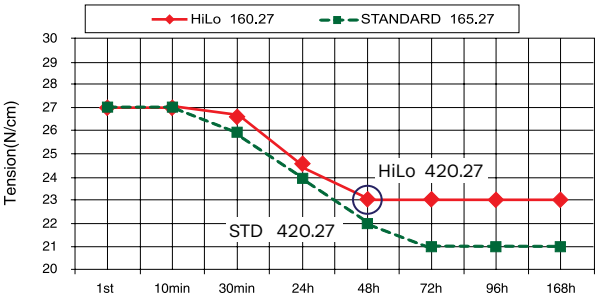
Dimensional Change

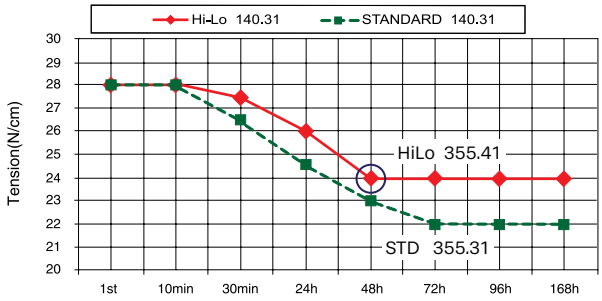


Extremely low mesh relaxation guarantees:

- Low tension loss after stretching
- Mesh ready to use in less time, as it can be brought to required tension quicker
- Printing quality consistency and improved ink flow during all production run

Tension Loss





Availability Of SAATI HiLo Mesh						
Mesh Count (cm/in)	Thread Diameter (µm)	Weave	Mesh Opening µm	Open Area %	Thickness µm	Theoretical Ink Volume (cm^3/m^2)
165/420	27	PW	29	23	42	9.6
150/380	31	PW	30	21	43	8.7
140/355	31	PW	35	25	45	10.8
120/305	34	PW	43	26	53	14.1
165/420	24	PW	32	28	38	11.0
180/460	24	PW	28	26	37	9.5

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