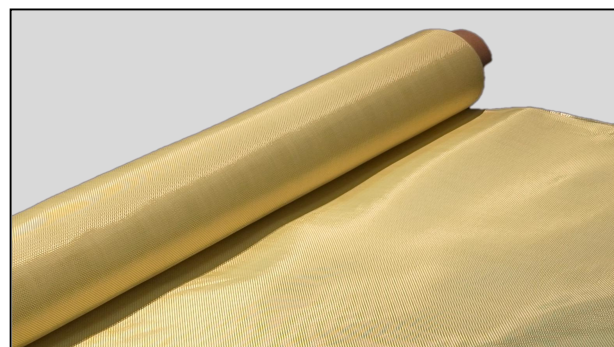


<b>Brand name:</b>	<b>LOONG-FLEX™</b> <b>SW</b> (Soft Armor – Woven Fabric Series)
<b>Product code:</b>	<b>SW-130T</b>
<b>Armor type :</b>	<b>Soft Armor / Flexible Ballistic Panel</b>
<b>Construction:</b>	<b>Twill Weave, Single Layer</b>
<b>Application :</b>	Body Armor Vest / Soft Ballistic Insert
<b>Manufacturing note:</b>	Woven on high-precision rapier looms


**PHYSICAL & DIMENSIONAL PROPERTIES**

Property	Unit	Value
Areal Density	g/m <sup>2</sup>	130
Fabric Width	mm	1600
Roll Length	m	200
Fabric Thickness	mm	0.20 ± 0.05
Warp Yarn Density	yarns/10 cm	150 ± 2
Weft Yarn Density	yarns/10 cm	145 ± 2

**PHYSICAL & DIMENSIONAL PROPERTIES**

Property	Method	Unit	Specification	Typical
Tensile Strength – Warp	ASTM D5035	N/50 mm	≥ 4,800	6,288
Tensile Strength – Weft	ASTM D5035	N/50 mm	≥ 4,800	4,988
Breaking Elongation – Warp	ASTM D5035	%	≥ 3.00	6.79
Breaking Elongation – Weft	ASTM D5035	%	≥ 3.00	3.91
CV of Breaking Strength – Warp	ASTM D5035	%	≤ 7.00	0.86
CV of Breaking Strength –Weft	ASTM D5035	%	≤ 7.00	2.88
Oil Content	ASTM D2257	%	0.8 – 1.5	1.21

**BALLISTIC PERFORMANCE DATA**

Threat Level	Configuration	Areal Weight
NIJ 0101.06-III A 9mm FMJ RN	40 Plies	5.20 kg/m <sup>2</sup>
NIJ 0101.06 Level III A .44 Magnum SJHP	48 Plies	6.24 kg/m <sup>2</sup>
Anti-Trauma Insert	5 mm White EVA Foam	
V50 Ballistic Limit (1.1g / 17gr FSP):		<b>505 m/s at 40 Plies</b>

- All values are typical and representative; they are not guaranteed specifications.
- Ballistic performance data are based on internal laboratory testing.  
End-user validation testing is strongly recommended.
- Properties may vary depending on processing conditions and laminate configuration.
- Export of ballistic materials may be subject to national and international regulations.