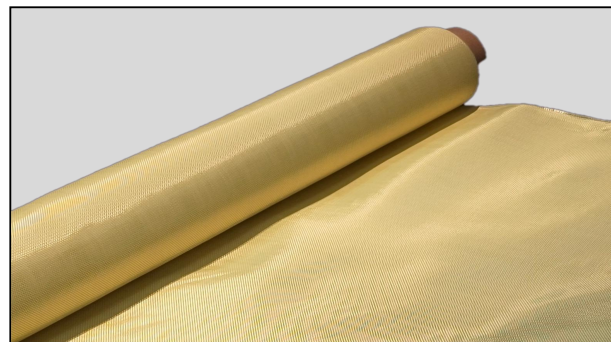


Brand name	LOONG-FLEX™ SW (Soft Armor – Woven Fabric Series)
Product code:	SW-200T
Armor type :	Soft Armor / Flexible Ballistic Panel
Construction:	Plain Weave, Single Layer
Application :	Body Armor Vest / Soft Ballistic Insert
Manufacturing note:	Woven on high-precision rapier looms


PHYSICAL & DIMENSIONAL PROPERTIES

Property	Unit	Value
Areal Density	g/m ²	200
Fabric Width	mm	1600
Roll Length	m	200
Fabric Thickness	mm	0.30 ± 0.05
Warp Yarn Density	yarns/10 cm	90 ± 2
Weft Yarn Density	yarns/10 cm	90 ± 2

PHYSICAL & DIMENSIONAL PROPERTIES

Property	Method	Unit	Specification	Typical
Tensile Strength – Warp	ASTM D5035	N/50 mm	≥ 7,517	8,737
Tensile Strength – Weft	ASTM D5035	N/50 mm	≥ 8,095	9,110
Breaking Elongation – Warp	ASTM D5035	%	≥ 4.00	6.88
Breaking Elongation – Weft	ASTM D5035	%	≥ 4.00	4.7
CV of Breaking Strength – Warp	ASTM D5035	%	≤ 7.00	2.53
CV of Breaking Strength –Weft	ASTM D5035	%	≤ 7.00	2.74
Oil Content	ASTM D2257	%	0.8 – 1.5	1.12

BALLISTIC PERFORMANCE DATA

Threat Level	Configuration	Areal Weight
NIJ 0101.06-III A 9mm FMJ RN	25 Plies	5.0 kg/m ²
NIJ 0101.06 Level III A .44 Magnum SJHP	30 Plies	6.0 kg/m ²
Anti-Trauma Insert	5 mm White EVA Foam	
V50 Ballistic Limit (1.1g / 17gr FSP):		584 m/s at 25 layers
V50 Ballistic Limit (1.1g / 17gr FSP):		638 m/s at 35 layers

- 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.