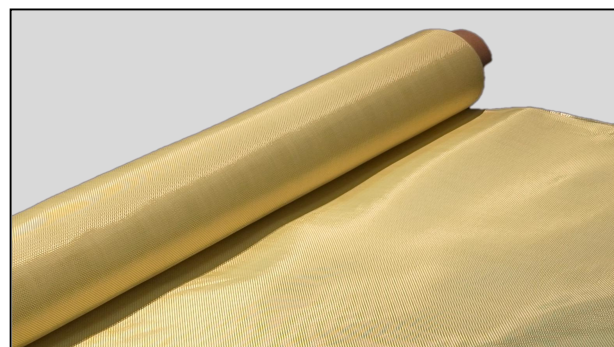


Brand name: LOONG-FLEX™
Product code: SW-175T
Armor type : Soft Armor / Flexible Ballistic Panel
Construction: Twill Weave, Single Layer
Application : Body Armor Vest / Soft Ballistic Insert
Manufacturing note: Woven on high-precision rapier looms


PHYSICAL & DIMENSIONAL PROPERTIES

Property	Unit	Value
Areal Density	g/m ²	175±10
Fabric Width	mm	1600
Roll Length	m	200
Fabric Thickness	mm	0.30 ± 0.05
Warp Yarn Density	yarns/10 cm	91 ± 2
Weft Yarn Density	yarns/10 cm	91 ± 2

PHYSICAL & DIMENSIONAL PROPERTIES

Property	Method	Unit	Specification	Typical
Tensile Strength – Warp	ASTM D5035	N/50 mm	≥ 7,500	7,935
Tensile Strength – Weft	ASTM D5035	N/50 mm	≥ 7,500	8,045
Breaking Elongation – Warp	ASTM D5035	%	≥ 3.00	4.66
Breaking Elongation – Weft	ASTM D5035	%	≥ 3.00	4.64
CV of Breaking Strength – Warp	ASTM D5035	%	≤ 7.00	3.11
CV of Breaking Strength –Weft	ASTM D5035	%	≤ 7.00	1.57
Oil Content	ASTM D2257	%	0.8 – 1.5	1.08

BALLISTIC PERFORMANCE DATA

Threat Level	Configuration	Areal Weight
NIJ 0101.06-III A 9mm FMJ RN	30 Plies	5.10 kg/m ²
NIJ 0101.06 Level III A .44 Magnum SJHP	35 Plies	6.12 kg/m ²
Anti-Trauma Insert	5 mm White EVA Foam	
V50 Ballistic Limit (1.1g / 17gr FSP):		508 m/s at 38 Plies

- 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.