

Brand name	LOONG-FLEX™ SA (Soft Armor – Aramid UD)
Product code:	SA-2150
Armor type :	Soft Body Armor
Construction:	UD Cross-Ply Laminate
Application :	Ballistic Vest / Soft Body Armor Panel
Manufacturing note:	UD line with Honeywell machinery.


PHYSICAL & DIMENSIONAL PROPERTIES

Construction	2-Ply Cross-Ply (0°/90°)
Areal Density (with film)	150 g/m ²
Fabric Width	1600 mm
Roll Length	200 m
Fiber Type	High-Tenacity Para-Aramid
Product Form	Roll

BALLISTIC PERFORMANCE DATA

Threat Level	Configuration	Areal Weight
NIJ 0101.06-IIIA 9mm FMJ RN	29 Plies	4.35 kg/m ²
NIJ 0101.06-IIIA .44 Magnum SJHP	42 Plies	6.30 kg/m ²
GA141 Level 3 (7.62×25 SC FMJ RN / M79 51 type)	50 Plies	7.50 kg/m ²

V50 Ballistic Limit (1.1g / 17gr FSP):	500 m/s (at 33 plies)
Anti-trauma Materials (NIJ 0101.06-IIIA) :	5 mm White EVA Foam
Anti-trauma Materials (GA141 Level 3) :	PC + 5 mm EVA Foam

PRODUCT FEATURES & ADVANTAGES

Flexibility Rating:	+++
Key Advantage:	Cost-effective solution for soft body armor

- 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.