

Brand name	LOONG-FLEX™ SA (Soft Armor – Aramid UD)
Product code:	SA-2135
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	4-Ply 0°/90°/0°/90° Cross-ply
Areal Density (with film)	235 g/m ²
Fabric Width	1600 mm
Roll Length	150m
Fiber Type	High-Tenacity Para-Aramid
Product Form	Roll

BALLISTIC PERFORMANCE DATA

Threat Level	Configuration	Areal Weight
NIJ 0101.06-III A 9mm FMJ RN	18 Plies	4.23 kg/m ²
NIJ 0101.06-III A .44 Magnum SJHP	25 Plies	5.85 kg/m ²
GA141 Level 2 (7.62×25 SC FMJ RN / P54 51 type)	20 Plies	4.70 kg/m ²
GA141 Level 3 (7.62×25 SC FMJ RN / M79 51 type)	30 Plies	7.05 kg/m ²
V50 Ballistic Limit (1.1g / 17gr FSP):	540 m/s (at 21 plies)	
Anti-trauma Materials (NIJ 0101.06-III A) :	5 mm White EVA Foam	
Anti-trauma Materials (GA141 Level 2/3) :	PC + 5 mm EVA Foam	

PRODUCT FEATURES & ADVANTAGES

Flexibility Rating:	++
Key Advantage:	High areal density per ply enables fewer layers for equivalent protection levels — optimized for streamlined assembly

- 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.