

Brand name	LOONG-FLEX™ SA (Hard Armor – Aramid UD)
Product code:	SA-2232
Armor type :	Hard Armor / Rigid Composite Plate
Construction:	UD Cross-Ply Laminate
Application :	Hard Armor Plate / Structural Ballistic Panel
Manufacturing note:	UD line with Honeywell machinery.


PHYSICAL & DIMENSIONAL PROPERTIES

Construction	2-Ply 0°/90° Cross-ply
Areal Density (with film)	130 g/m ²
Fabric Width	1600 mm
Roll Length	200m
Fiber Type	High-Tenacity Para-Aramid
Product Form	Roll

BALLISTIC PERFORMANCE DATA

Threat Level	Configuration	Areal Weight
NIJ 0101.06-IIIA 9mm FMJ RN	45 Plies	5.85 kg/m ²
NIJ 0101.06-IIIA .44 Magnum SJHP	58 Plies	7.54 kg/m ²
GA141 Level 2 (7.62×25 SC FMJ RN / P54 51 type)	47 Plies	6.11 kg/m ²
GA141 Level 3 (7.62×25 SC FMJ RN / M79 51 type)	63 Plies	8.19 kg/m ²
V50 Ballistic Limit (1.1g / 17gr FSP):	417 m/s at 5.0 kg/m ² areal weight	

PRODUCT FEATURES & ADVANTAGES

SUPERIOR BALLISTIC PERFORMANCE	— EXCEEDS CONVENTIONAL WOVEN FABRIC COMPOSITES
EXCELLENT FLAME RETARDANCY	— LOI > 50 (tested at 2.5 mm plate thickness)

- 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.