

<b>Brand name</b>	<b>LOONG-FLEX™</b>
	<b>SA Series (Soft Armor – UHMWPE UD)</b>
<b>Product code:</b>	<b>SJ200-160S</b>
<b>Armor type :</b>	<b>Soft Body Armor</b>
<b>Construction :</b>	<b>UD Cross-Ply Laminate</b>
<b>Application :</b>	<b>Ballistic Vest / Soft Body Armor Panel</b>


**PHYSICAL & DIMENSIONAL PROPERTIES**

Construction	4-Ply 0°/90°/0°/90° Cross-ply
Areal Density (with film)	160 g/m <sup>2</sup> ± 5 g/m <sup>2</sup>
Fabric Width	1600 mm
Roll Length	100 m (standard) / Customizable
Fiber Type	UHMWPE — SJ200 Grade
Fiber Tenacity	35 – 38.5 cN/dtex
Matrix / Binder	Waterborne Polyurethane (WPU)
Product Form	Roll

**BALLISTIC PERFORMANCE DATA**

Threat Level	Configuration	Areal Weight
NIJ 0101.06-III A 9mm FMJ RN	25 Plies	4.00 kg/m <sup>2</sup>
NIJ 0101.06-III A .44 Magnum SJHP	32 Plies	5.12 kg/m <sup>2</sup>
GA141 Level 2 (7.62×25 SC FMJ RN / P54 51 type)	22 Plies	3.52 kg/m <sup>2</sup>
GA141 Level 3 (7.62×25 SC FMJ RN / M79 51 type)	32 Plies	5.12 kg/m <sup>2</sup>
<b>V50 Ballistic Limit (1.1g / 17gr FSP):</b>	<b>650 ± 15 m/s (at 5.4 kg/m<sup>2</sup>)</b>	
Anti-trauma Materials (NIJ 0101.06-III A) :	5 mm White EVA Foam	

**PRODUCT FEATURES & ADVANTAGES**

<b>Flexibility Rating:</b>	<b>++</b>
<b>Key Advantage:</b>	High-tenacity mid-grade UHMWPE UD; optimal balance of protection, weight and cost for NIJ IIIA vests
<b>Resin System :</b>	Waterborne polyurethane — low VOC, eco-friendly
<b>Multi-hit Capability:</b>	Good resistance to multiple fragment impacts
<b>Processing :</b>	Compatible with standard hot-press lamination

- 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.