

ISHI NEW MATERIALS

Technology Defend Life

Personnel & Vehicle Armor Solutions



ISHI UHMWPE UD Fabrics are the most advanced ballistic protection solutions currently available on the market, having the best weight to ballistic performance ratio. They are made with the lightest material available: Ultra High Molecular Weight Polyethylene Fiber (UHMW-PE), capable of delivering high protection levels at a lower weight compared to traditional steel or other high performance ballistic materials. The panels feature exceptionally high multi-hit capability, providing the user an outstanding degree of safety if hit by multiple projectiles or fragments. Such fabrics combine Polyethylene fibers in a thermoplastic matrix that is capable of absorbing and dispersing high impact energy, such as energy from rifle shots. Each fabric layer has four plies of UD-Polyethylene fiber tapes cross-plied at $0^{\circ}/90^{\circ}/0^{\circ}/90^{\circ}$.

ISHI inserts are available in a wide range of shapes, from flat plates to complex ergonomic designs. Tailor-made inserts and different finishes, such as coated covers, plastic covers and textiles, are available to suit specific needs of the customers.

UD Fabrics for soft armor

UD Type	STD.	Level	Bullet	Areal Density [kg/m ²]
IH150	NIJ 0101.06	IIIA	9 mm .44 Mag.	5.4+Anti-trauma
SH150	NIJ 0101.06	IIIA	9 mm .44 Mag.	4.35+Anti-trauma
YH150	NIJ 0101.06	IIIA	9 mm .44 Mag.	4.5

UD Fabrics for Hard armor

UD Type	STD.	Level	Bullet	Areal Density [kg/m ²]
IH240	NIJ 0101.06	III+	7.62x51 M80	18.4+Anti-trauma
SH110	NIJ 0101.06	III+	7.62x51 M80	16.2+Anti-trauma
YH110	NIJ 0101.06	III+	7.62x51 M80	14.85+Anti-trauma

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