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U1661

U1661 is an advanced para-aramid unidirectional material for soft armor ballistic applications. U1661 consists of two plies of unidirectional product, cross-plyed in 0°/90° configuration. Our proprietary UD technology aligns the fibers in each layer in a parallel direction. Each layer is individually constructed within a resin matrix.

PRODUCT DATA

Characteristic	Lower Limit	Target	Upper Limit
Width	62.99 in 160.0 cm	63.19 in 160.5 cm	63.39 in 161.0 cm
Nominal Weight	3.10 oz/yd ² 105.0g/m ²	3.27 oz/yd ² 111.0 g/m ²	3.45 oz/yd ² 117.0 g/m ²

PRODUCT FEATURES

- U1661 2 ply UD for improved flexibility for more comfortable armor solutions.
- U1661 2 ply UD ballistic performance provides higher V50 and lower BFD in NIJ06 solutions.
- U1661 2 ply UD maintains ballistic performance after environmental conditioning.
- U1661 2 ply UD patented resin formula allows for exceptional abrasion and solvent resistance.

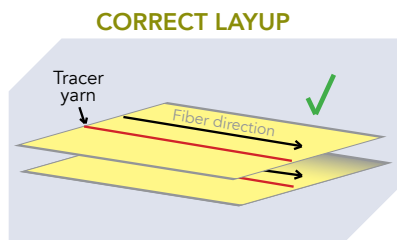
BALLISTIC PERFORMANCE

Threat	Layers	Conditioned Areal Density kg/m ²	Conditioned Areal Density lb/ft ²	Minimum V50 m/s	Minimum V50 ft/s
9mm FMJ V50C	34	3.81	0.78	445	1,460

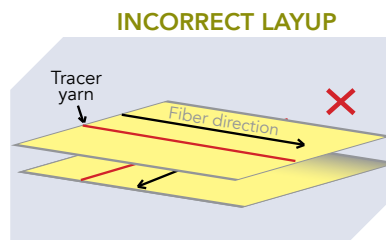
The ballistic data listed here is representative of typical results based on limited data and may be subject to revision.
 *Listed values and target areal densities only.

Material performance is dependent on product orientation. Always ensure the fiber orientation is correct.

U1661 has been tested in accordance with NIJ06 tumbling protocol. Additional accelerated aging tests were conducted on U1661 using NIJ06 recommended conditions for the duration of twelve months. Please contact Barrday for additional information on both accelerated aging studies. This information does not relieve the user from the responsibility of testing the final ballistic construction.



Same fiber direction should always face up.



UD with different fiber directions facing up is incorrect.

Material Disclaimer:

In some instances, stitching may decrease ballistic performance when used in a monolithic configuration. If required, please contact Barrday for additional information on stitching.

Aramid Disclaimer:

Prolonged sunlight and UV exposure degrades aramid fibers. Aramid fibers will change color with exposure to sunlight or other UV sources. Do not store in direct light. Do not store near open flame, heat or strong oxidants. Aramid yarn absorbs up to 8% moisture by weight. Caution should be taken if aramid fibers are used at temperature above 149°C for extended periods of time.

Taken from our Terms & Conditions:

Seller Warranty: Seller warrants that the goods delivered to Buyer in connection with the Order Acknowledgment meet Seller's standard specifications for the goods in effect at the date of delivery. This Warranty is valid for a period of 60 days from the date of shipment. This Warranty is void and of no effect if the goods or any articles made from the goods are not stored or handled in accordance with the product specifications and/or the Certificate of Analysis.

Revision Control: Users of this document will not be notified of revisions.