

U600 BARRFLEX™

BarrFlex™ U600 is an advanced para-aramid unidirectional material for soft armor ballistic applications. Barrday BarrFlex™ U600 consists of four plies of unidirectional product, cross-plied in 0°/90°/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. Thermoplastic film is laminated to the top and bottom surfaces for abrasion resistance.

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
Conditioned Weight	6.69 oz/yd ² 227.0 g/m ²	7.02 oz/yd ² 238.0 g/m ²	7.34 oz/yd ² 249.0 g/m ²

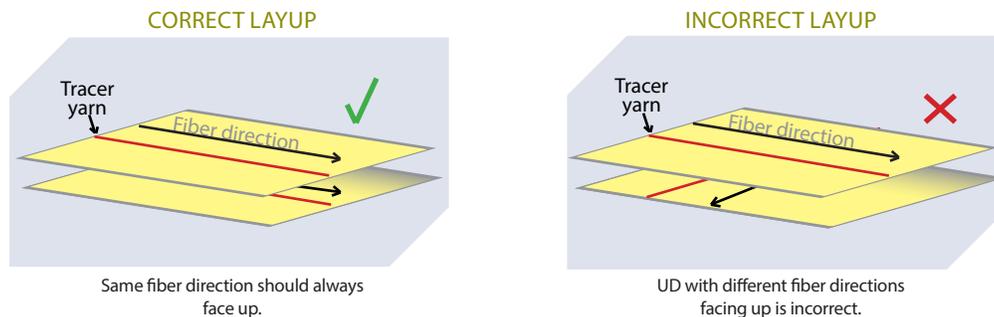
BALLISTIC PERFORMANCE

Test	Layers	Conditioned Areal Density kg/m ^{2*}	Conditioned Areal Density lb/ft ^{2*}	Average V50 m/s	Average V50 ft/s
Barrday 0.357 Mag V50C15L	15	3.57	0.73	464 ± 11	1522 ± 36
Barrday 9 mm V50C 16L	16	3.81	0.78	483 ± 11	1585 ± 36

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.



BarrFlex™ U600 has been tested in accordance with NIJ06 tumbling protocol. Additional accelerated aging tests were conducted on BarrFlex™ U600 using NIJ06 recommended conditions for the duration of six 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.

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.

