

U531 BARRFLEX™

BarrFlex™ U531 is an advanced para-aramid unidirectional material for hard armor ballistic applications. Barrday BarrFlex™ U531 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.

PRODUCT DATA

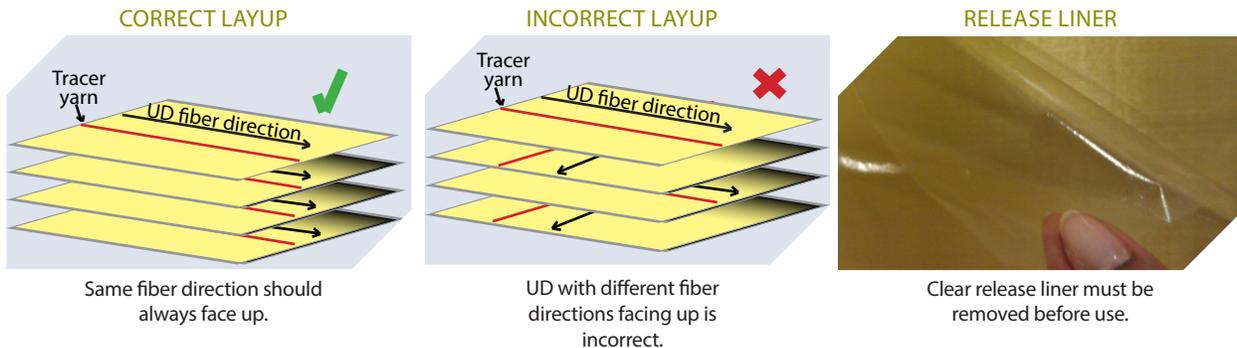
Characteristic	Lower Limit	Target	Upper Limit
Width	62.99 in 160.0 cm	63.19 in 160.5 cm	63.39 in 161.0 cm
Conditioned Weight	15.87 oz/yd ² 538.0 g/m ²	16.16 oz/yd ² 548.0 g/m ²	16.46 oz/yd ² 558.0 g/m ²

BALLISTIC PERFORMANCE

Test	Layers	Conditioned Areal Density (kg/m ²)	Dry Pressed Areal Density (lb/ft ²)	Typical V50 (m/s)	Typical V50 (ft/s)
Barrday 0.30 Cal FSP V50 at 4.0 psf	38	20.8	4	905	2968
17 grain V50 at 2.0 psf	19	10.4	2	739	2425

The ballistic data listed here is representative of typical results based on limited data and may be subject to revision.

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



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.

