

U730 BARRFLEX™

U730 is an ultra-high molecular weight polyethylene unidirectional material for soft armor ballistic applications. U730 consists of four plies of unidirectional of unidirectional product, cross-plyed in 0°/90°/0°/90° configuration and plastic film. Each layer is individually constructed within a resin matrix using Barrday's proprietary UD technology to align the fibers in a parallel direction.

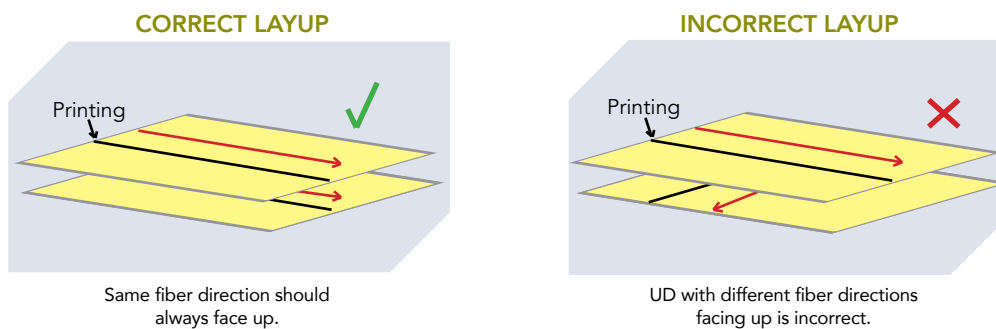
PHYSICAL PROPERTIES

| 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 | 4.93 oz/yd ² 167 g/m ² | 5.22 oz/yd ² 177 g/m ² | 5.52 oz/yd ² 187 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 |
|---------------|--------|---|--|--------------------|---------------------|
| 9 mm FMJ V50C | 20 | 3.54 | 0.72 | 485 | 1590 |

Ballistic testing performed on Roma Plastilina No.1 backing in Barrday's ballistic test laboratory. The ballistic data listed here is representative of typical results and may be subject to revision. Performance may also vary between different test laboratories. *Listed values and target areal densities only.



BarrFlex™ U730 has been tested under various conditions including the NIJ 0101.06 Conditioning/Tumbling protocol. For more information, please contact Barrday with any questions regarding test results.

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.

Note:

The data presented herein has been developed under controlled manufacturing conditions. No warranty is expressed or implied regarding the accuracy or use of this data or the use of this product. It is the responsibility of the end user to determine suitability for use.