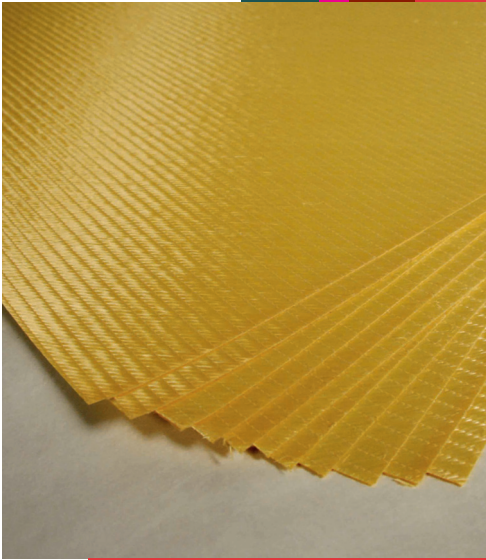


DuPont™ Kevlar® XP™ S102

COMMERCIAL PRODUCT SPECIFICATION



Innovative DuPont™ Kevlar® XP™

Enables redesigns that meet NIJ and other applicable global standards

Helps reduce costs and increase wearer comfort due to fewer layers

Maintains performance after exposure to the elements

Reduces backface deformation by approximately 15% or more

Technical Data

Property	Specification	Test Method
Width, mm	1250 + 10	Internal
Thickness, mm	0.46 ± 0.03	Internal
Areal Density, g/m ²	510.0 ± 20	ISO 3801

More Protection, Less Material

DuPont™ Kevlar® XP™ is the newest innovation from DuPont. It can help create NIJ III A vest designs that provide superior ballistic performance and reduce backface deformations by approximately 15% or more*.

The unique architecture of Kevlar® XP™ S102 with +45°/-45° of 2-layer of fiber lay-up also provides better stopping power with less material—reducing labor and material costs compared to current designs. Kevlar® XP™ features a patented new woven fabric technology that enables vests to weigh at least 10% less than those made with other commercially available technologies, while still being made of 100% Kevlar® material. This helps create a vest that is comfortable for the user.

Proper Use

- To achieve optimal performance, place the layers in the same direction.
- Sheets must be converted into vests, which are suitable for the intended end-use.
- It is the sole responsibility of the vest manufacturer to design suitable products and obtain the relevant certifications before releasing vests to end-users.

Proper Handling

- Avoid tearing and crushing the product.
- DO NOT use bleach or bleach products when cleaning Kevlar® XP™.
- When transporting sheets, follow proper handling procedures in accordance with package weight.

Proper Storage

- Store in a dry temperate area, not to exceed 66 °C (150 °F) and avoid direct sun and UV light exposure.
- Keep product covered with black impermeable plastic.

The information provided herein corresponds to our knowledge on the subject at the date of publication of this data sheet. The information is intended for use by persons who are experienced and knowledgeable in the properties, processing techniques and hazards of product and its suitability for their particular purposes. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; these data may not be valid for such material used in combination with any other materials or additives or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits nor used alone as the basis of design; they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since DuPont cannot anticipate all variations in actual end-use conditions DuPont makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under, or a recommendation to infringe, any patent rights.

*Compared to other commercially available lightweight technologies for NIJ III A against .44 Magnum bullets.

Caution: Do not use this product in medical applications involving permanent implantation in the human body. For other medical applications see "DuPont Medical Caution Statement."

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Kevlar® XP™