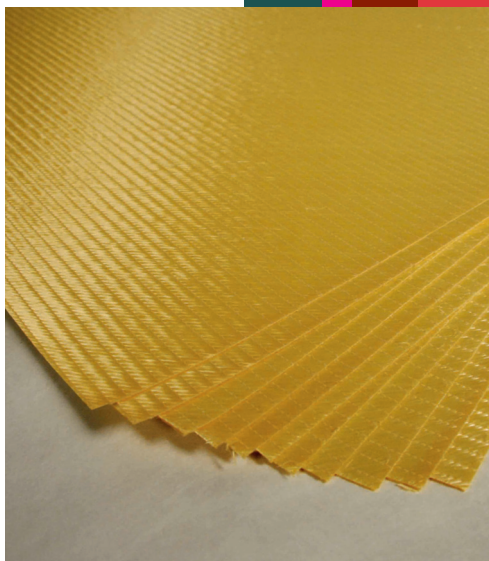


DuPont™ Kevlar® XP™ S300

COMMERCIAL PRODUCT SPECIFICATION



Innovative DuPont™ Kevlar® XP™

Enables designs that meet NIJ and other applicable global standards

Consistent bullet stopping power across a wide range of threats

Maintaining performance after exposure to the elements

Reduces back face deformation by approximately 15% or more

Technical Data

Property	Specification	Test Method
Width, mm	1270 ± 10	Internal
Thickness, mm	0.27 ± 0.03	ASTM D1777-96
Areal Density, g/m ²	310 ± 20	ASTM D3776-96

A New Addition to the DuPont™ Kevlar® XP™ Technology Product Line

Kevlar® XP™ is the newest innovation from DuPont. With it, you can create NIJ III A vest designs that provide superior ballistic performance and reduce back face deformations by approximately 15% or more*. This new Kevlar® XP™ S300 technology offers more flexibility in designing body armor for specific end-user requirements in addition to NIJ, such as standards that focus on 9 mm threats (e.g., SK1). This extension compliments the existing DuPont™ Kevlar® XP™ S102.

The unique architecture of Kevlar® XP™ S300 with +45°/-45° of 2-layer of fiber lay-up also allows you to use fewer layers of 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.

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 IIIA against .44 Magnum bullets. **Measured on dry fabric.

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."

Copyright © 2012 DuPont. The DuPont Oval Logo, DuPont™, The miracles of science™, Kevlar®, and Kevlar® XP™ are registered trademarks or trademarks of E.I. du Pont de Nemours and Company or its affiliates. All rights reserved.

K-23806-3 (02/12) Printed in the U.S.A.

Visit kevlar.com to learn more.



Kevlar® XP™