

Arclin® Kevlar® XP™ S107

TECHNICAL DATA SHEET

XP™ PROTECTION WITH FEWER LAYERS

- Arclin® Kevlar® XP™ S107 is an extension of the renowned Kevlar® XP™ brand technology platform. This material needs fewer layers than other XP™ products and provides robust protection against basic ballistic specifications. The XP™ S107 protective material offers the possibility to design monolithic or hybrid soft body armor solutions to answer demanding tenders. Customers who need simple solutions against NIJ IIIA.04 will use for example only 8 layers of XP™ S107 which simplifies the manufacturing of the ballistic vest. For those who require specific features such as lighter basis weight than 6.2 kg/m2 will enjoy the hybridization capability of the XP™ S107 with other XP™ products or Kevlar® ballistic fabrics.
- This extension complements the existing Arclin® Kevlar® XP™ family.
- The unique architecture of Kevlar® XP™ technology also provides better stopping power with less material offering higher productivity of body armor manufacturing and reduced material costs compared to current designs. Kevlar® XP™ construction also ensures reduced back face signature, strong ballistic performance, as well as edge stability and structural consistency during use and wear, while still being made of 100% high toughness Kevlar® material.
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TECHNICAL DATA

PROPERTY	NOMINAL AIM
Width, (cm)	160
Thickness, (m)	50
Areal density, (g/m^2)	815

PROPER USE

- Stack layers in the same direction to achieve optimal performance.
- Kevlar® XP™ S107 material must be converted into vests which suitable for the intended end-use.
- It is the responsibility of the armor manufacturer to design suitable products and obtain the relevant certifications before releasing end products using Kevlar® XP S107 to end users.

PROPER HANDLING

- Avoid tearing and crushing the product.
- Do not use bleach or products containing bleach to clean Kevlar® XP™ S107.
- Ensure that the correct handling procedure is followed in accordance with package weight when rolls are being transported.

PROPER STORAGE

- Store in dry temperate area avoiding storage conditions exceeding 60°C (140°F) and avoiding direct exposure to sun or UV light.
- Cover the product with black impermeable plastic.

Visit kevlar.com to learn more

Product safety information is available upon request. This information is provided in good faith as technical guidance based on our current product knowledge and may be updated as new information becomes available. It is for experimental purposes only and does not replace independent testing to determine suitability for varied applications. Arclin is unable to anticipate all manufacturing, processing, handling, application or end-use conditions and therefore MAKES NO EXPRESS OR IMPLIED REPRESENTATIONS OR WARRANTIES AND ASSUMES NO LIABILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION. Nothing herein shall be construed as a license or recommendation to infringe any patent or other intellectual property rights.

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