

ARCLIN
Kevlar®

Arclin® Kevlar® XP™ K520

TECHNICAL DATA SHEET

MORE PROTECTION WITH FEWER LAYERS

- Arclin® Kevlar® XP™ K520 continues the evolution of the well-known XP™ ballistic protection family. The exclusive Kevlar® XP™ construction allows the creation of vest designs that provide NIJ Standard-0101.06IIIA ballistic performance with reduced backface signature.
- The architecture of Kevlar® XP™ K520 consists of 2 layers of fibers in a +45°/–45° orientation that provides the required stopping power to address standard ballistic threats to body armor with fewer layers thereby reducing labor and material costs compared to designs with traditional woven fabrics or unidirectional materials.
- Kevlar® XP™ features a patented technology enabling flexible and lightweight vest constructions that are robust and long lasting even when exposed to extreme conditions. Using one of the most reliable materials in the market, vests constructed with Kevlar® XP™ K520 helps end-users to safely face the threats that they encounter.

PROPER USE

- Roll of Kevlar® XP are intended for conversion into soft body armor packs, suitable for use in ballistic vests.
- It is the responsibility of the vest manufacturer to design suitable end-products and to obtain the relevant certifications before releasing vests to end-users.

PROPER HANDLING

- Avoid tearing and crushing the product.
- Do not use bleach or products containing bleach to clean Kevlar® XP K520.
- 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 66°C (150°F) and avoiding direct exposure to sun or UV light.
- Cover the product with black impermeable plastic.



TECHNICAL DATA

PROPERTY	NOMINAL VALUE
Roll width, cm	160
Roll length, m	100
Areal density(1), g/m²	525

(1) Conditioned Weight, 20°C / 65 RH (ASTM D1776)

BALLISTIC PERFORMANCE

- Monolithic Arclin® Ke vlar® XP™ K5 20 soft armor solution, made of 10 layers of XP™ K5 20 partially stitched, a 3mm foam and 1 layer of XP™ K520, with a typical areal density of 5.8-5.9 kg/m2, is a recommended starting point design forNIJ 0101.06 Level IIIA with a suitable safety margin.
- This design solution is provided as an illustrative starting point for end-product dimensioning. Final vest designs must always be tested according to specific end-user requirements.

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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