

Arclin® Kevlar® Prepreg HA K460s

TECHNICAL DATA SHEET

PROTECTION AGAINST A RANGE OF THREATS

- Prepreg HA K460S is a single-side coated prepreg designed for optimum ballistic protection in helmet applications against non-deformable projectiles (fragments), deformable projectiles (bullets), and blunt impact.
- This material, comprised of high-tenacity Arclin® Kevlar® K129 fibres and a phenolic based resin, provides protection in the toughest environments. It is particularly suited for helmet, vehicle armour and ceramic backing applications.

PROCESSING

- Arclin® Kevlar® Prepreg HA K460S is a high performance proprietary PVB modified phenolic resin pre- impregnated rolled-good which can be easily processed and is available in 1m wide rolls. Recommended curing conditions are temperatures between 160°C and 175°C, and pressures between 10 and 100bar for optimal performances. Typical curing times are 15 minutes and parts do not require cooling before demoulding.

TYPICAL PROPERTIES

- Arclin® Kevlar® Prepreg HA K460S is designed for ballistic helmet applications and is a material of choice for manufacturing of demanding PASGT, ACH or MICH type helmets requiring high levels of resistance to fragments, hand-gun bullets, repeat side-to-side compression, low and high temperature performance, and high durability.
- Arclin® Kevlar® Prepreg Prepreg HA K460S is also suited for vehicle armouring as a metal or ceramic backing material providing efficient support and fragment retention capabilities and increasing overall protection levels.
- Arclin® Kevlar® Prepreg HA K460S is suited for use as an internal vehicle liner withstanding the environmental constraints, as well as the temperature extremes it can be exposed to in this application. It has also inherent fireresistant characteristics allowing it to pass NAVSEA requirements for use in constrained areas on ships.

STORAGE CONDITIONS

- The shelf Life of the Kevlar® Prepreg fabric is 6 weeks at room temperature and 40-60% relative humidity, 3 months when stored at 5°C, and 6 months when stored at -18°C. Stated shelf lives assume product is protected from U.V. light exposure. Shelf life begins on delivery to customer.



TECHNICAL DATA

PROPERTY	NOMINAL VALUE
Roll width (cm)	100
Roll lengths (m)	100
Areal density (g/m^2)	500

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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