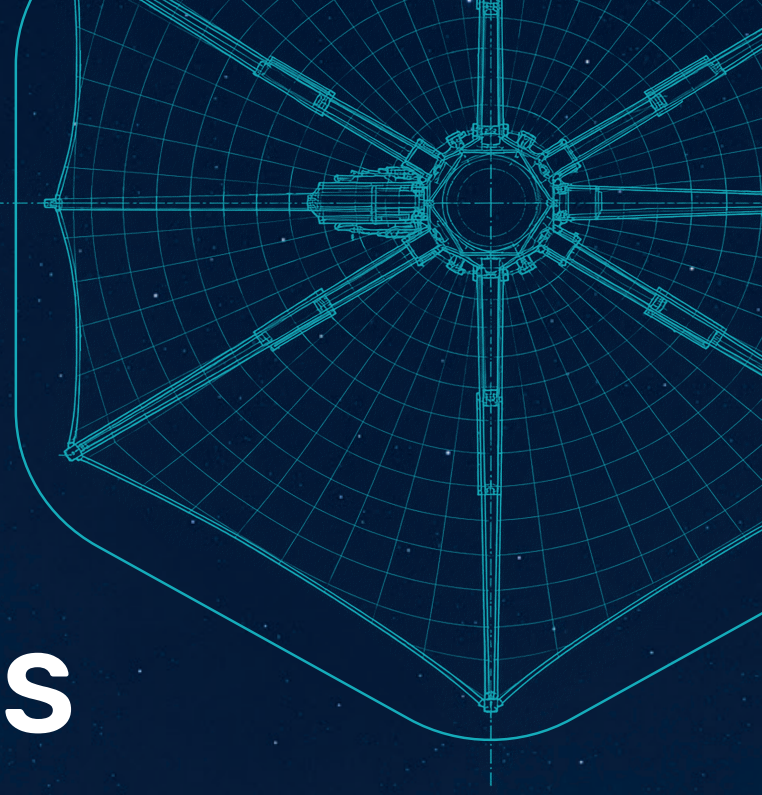


The Versiv logo consists of the word "versiv" in a white, lowercase, sans-serif font. A small teal dot is positioned above the letter 'i'.

ADVANCED MATERIALS FOR SPACE DEPLOYABLES



VERSIV SPACE MATERIALS are high-performance fabric composites incorporating fluoropolymers, polyimides, or a combination of both. Their flexibility, environmental resistance and customisable construction make them well suited to the evolving requirements of deployable space systems.

ASTM E595 COMPLIANT.

TENSILE & TEAR PERFORMANCE

Handling, integration and deployment can introduce mechanical stresses that may lead to excessive elongation, tearing or propagation of existing damage.

Reinforced Versiv Space Materials can provide tensile strength and tear resistance while retaining the flexibility and low mass required for deployable structures.

LONG-TERM STOWAGE STABILITY

Prolonged exposure to sustained compression can result in creep, permanent deformation, dimensional change, loss of geometry and reduced mechanical recovery.

Versiv Space Materials incorporate dimensionally stable reinforcement layers to help maintain shape and mechanical performance during extended storage. The inherently low surface energy of fluoropolymers and polyimide also helps reduce the risk of interlayer adhesion where surfaces remain in prolonged contact.

LIGHTWEIGHT CONSTRUCTION

Every gram of mass and millimetre of stowed volume matters, particularly for large-area structures that must pack into a highly compact form.

Thin and lightweight, Versiv Space Materials provide functional protection with minimal added mass, supporting large-area structures where low weight and compact stowage are critical.

DIMENSIONAL & MECHANICAL STABILITY

Thermal cycling, handling, integration and deployment forces can challenge dimensional stability and structural integrity.

The fibreglass reinforcement within Versiv Space Materials helps constrain the thermal expansion of polymer components, helping achieve a low effective coefficient of thermal expansion.

CUSTOMISABLE SYSTEMS. CO-DEVELOPED FOR YOUR MISSION.

VERSIV SPACE MATERIALS can be engineered around the mechanical, thermal, electrical and environmental requirements of the application.

We work closely with customers to co-develop material systems for specific deployable architectures and mission requirements, tailoring material thickness, reinforcement, surface treatment, coating construction and other key parameters.

METALLISED OPTIONS

Versiv Space Materials can be metallised to tailor thermo-optical and electrical properties.

Metallised constructions provide controlled reflectivity, emissivity and electrical behaviour while maintaining a lightweight, flexible substrate suitable for deployable structures.

TUNABLE ELECTRICAL CONDUCTIVITY

Versiv Space Materials are inherently electrically insulating, but the electrical behaviour of the finished material system can be engineered through conductive components or modified constructions.

Electrical tuning enables controlled surface conductivity, from insulating through dissipative and semi-conductive behaviour, depending on the requirements of the application.

TUNABLE SURFACE ENERGY

Versiv Space Materials inherently have low surface energy, supporting non-stick and low-friction performance, but their surface behaviour can also be modified where required.

Surface tuning enables increased bondability, improved adhesion, heat sealing and integration with other materials, depending on the requirements of the application.

CONTACT US

☎ +353 65 90 80 170

✉ contact@versivcomposites.com

Kilrush, Co. Clare, Ireland, V15 NW27

www.versivcomposites.com

versiv

**Partnerships that inspire.
Materials that perform.**

Versiv Composites is a recognised expert in high-performance, technology-driven, fluoropolymer-based composite films and fabrics. The company provides proven products and customised solutions to customers across a diverse array of sectors, including the space and aerospace industries.