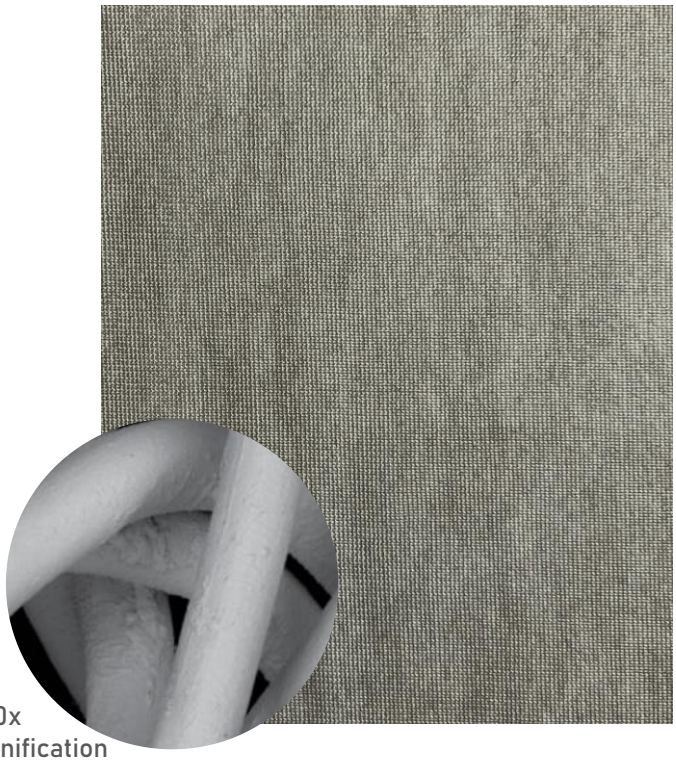
Swift Textile Metalizing

Electrically Conductive Nylon Knit Scrim 55 X 40-2, Ag Coated (K158S)

An INTEGRATED POLYMER SOLUTIONS Company

Electrically conductive silver coated nylon tricot knit scrim material. Ideal for applications requiring flexible, stretchable, thin, lightweight materials. Suitable for encapsulation in polymers or lamination to variety of materials to meet application requirements.

Additional characteristics include excellent breathability and the ability to maintain conductivity and RF reflectivity in harsh environments.



1,000x magnification

Features & Benefits

Our proprietary EnCap™ metalization process *completely* encapsulates each fiber in metal at the molecular level to deliver a durable, permanent, unbreakable bond while maintaining the mechanical properties of each fabric.

This process enables STM to *deliver best-in-class conductivity, durability, reliability and repeatability for maximum performance and lifecycle value*. As a result, STM materials are suitable for a variety of industries and applications.

Defense

Architectural Shielding

Security

Aerospace

Medical

Telecom

- RF signal reduction
- Secure work environments
- Shielded enclosures

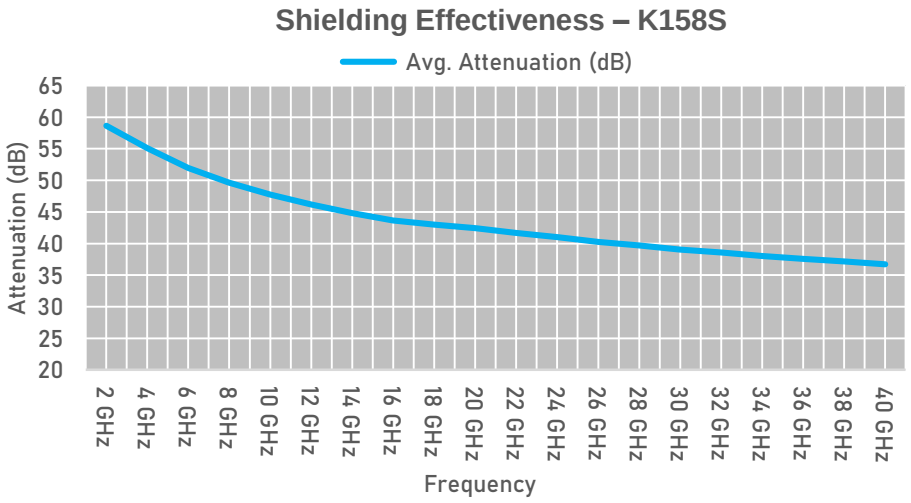
- Directed energy mitigation
- Wi-Fi signal isolation
- Mobile device security

- Flexible circuits/sensors
- Component shielding
- EMI management

Shielding Effectiveness

This graph shows the typical shielding effectiveness of K158S as measured with a free space focused beam test method at an industry-leading third party laboratory.

Tested by Compass Technology Group using test method CTG-TM-0101-2020
CTG-Focused-Beam-Shielding-Standard.pdf



Material Specification – K158S		
Base fabric: Nylon tricot knit scrim	Base fiber: Nylon 6 or Nylon 6,6	
Material coating: Silver	Width: 48" nominal	
Property	**Typical Value**	**Test Method**
Shielding effectiveness @ 1 GHz	-55 dB	ASTM D4935
Thickness	.004"	ASTM D1777
Weight	1.5 oz./yd²	ASTM D3776
Electrical resistance	0.3 Ω/sq.	ASTM D4496
Courses x Wales	55/in. x 40/in.	ASTM D3887
Tensile strength	1,700 psi, machine direction	ASTM D412
	1,500 psi, cross machine direction	
Elongation	75 %	ASTM D412
	115 %	

Note: The data presented above is based on test samples from multiple production batches and is representative of typical material properties.

Call or email us today to discuss your project

Swift Textile Metalizing, LLC is a U.S. manufacturing company that specializes in the design, development and production of a wide range of electrically conductive and reflective metalized fabrics used in products that provide protection of people and equipment from Electromagnetic Interference (EMI), Radio Frequency Interference (RFI) and Static Discharge.

Since 1955 Swift Textile Metalizing has provided standard and custom conductive fabrics for aerospace, defense and commercial applications. STM brings together technology, innovative engineering and customer involvement to provide dynamic application solutions. STM's goal is to continually improve our industry leadership through the highest standards in product performance and service.

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