

## SHEERGARD® SX-12

SX-12 is a SHEERGARD® material has a 3 layer construction with 2 barrier films designed for use in RF applications. The composite is made of high strength aramid fibers (Kevlar®) and a polytetrafluoroethylene (PTFE) matrix. These combine to give a lightweight, highly flexible and tear resistant weave, which is fully protected by its chemically impermeable outer layers.

The composite exhibits a very low dielectric constant and loss tangent as well as excellent hydrophobic properties.

## Typical Properties

Property	Value	Test Method
Coated Fabric Weight (oz/yd <sup>2</sup> )	13.0 nominal	ASTM D751
Thickness (in)	0.016 nominal	ASTM D751
Tensile Strength (lbs/in) Warp, Fill	350 min. avg.	ASTM D4851
Trap Tear Strength (lbs) Warp, Fill	35 min. avg.	ASTM D4851
Coating Adhesion (lbs/in)	6.0 min. avg.	ASTM D4851
Dielectric Constant	2.35 nominal	ASTM D2520
Loss Tangent	0.009 nominal	ASTM D2520
Incombustibility (seconds)	0 to flameout	NFPA 701
Hydrophobic Contact Angle (degrees)	100+ nominal	ASTM C813

Nominal values available upon request. Values listed are for virgin roll goods only. Appropriate industry safety factors need to be used to account for the in-service effects of handling, weathering, etc.

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