

Marktek Inc.

Your One-Stop Shop for Conductive, Resistive, & Microwave-Absorptive Materials

Data Sheet for SBRM48-IR

ID Number:	SBRM48-IR
Description:	Nylon ripstop fabric coated with specially deposited, 99% pure, diffusely reflective silver layer
Thickness, mils:	3.5 (90 um) \pm 12%
Basis Weight, oz/yd ²	1.25 (42 g/m ²) \pm 10%
Tensile Strength, lb/in	45 (80 N/cm)
Width, in (nominal)	52 \pm 1.5" (132 cm)
Surface Resistivity, ohm/sq	<0.5
Shielding Effectiveness, db Avg. from 30 MHz to 10 GHz	60
Avg. IR Thermal Signature Reduction, %:	80-90
Metal Adhesion*:	Pass, no metal loss
Abrasion Resistance, cycles*:	1,000,000
Temperature Range, °C	-40 to 100
Cold Exposure*:	No cracking
Avg. Roll Length, yd.:	109 (100 m)

Applications: Infrared (IR) reflective and diffusive material for use in IR signature reduction; also a thermal reflector. Usually needs to be coated first with polyurethane for protection and compatibility with IR inks.

*Metal adhesion, ASTM D3359; cold exposure test samples chilled to -30°C, then flexed 180° around a 1/8" diameter rod while at -30°C; abrasion resistance per ASTM D3885

The information provided here is for illustrative purposes only and should not be considered a product specification. As always, it is up to the user of this product to make the final determination as to whether the said product is suitable for the user's intended application.

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