

# Silver Conductive Film

Silver Conductive Film is an electrically conductive, silver alloy coated, optically clear, low resistance polyester EMI/RFI shielding film. The combination of high visible light transmission, near-neutral color, and low resistance creates the ideal EMI/RFI protection window for electronic displays, touch screens, and membrane switch panels that require moderate shielding effectiveness and high-quality optical performance. It is optimal for use as EMI/RFI shielding for Industrial, Defense, and Medical displays, touch screens, solar photovoltaic material and conductive transparent electrodes.



## Overview

MAJR Products' Silver Conductive Film meets the requirements of several industries for electromagnetic shielding, high visible light transmission, near-neutral color and low electrical resistance. This film works well for easy integration into optical stacks and displays.

## Features

- Low surface resistance: 4 or 12 ohm/sq.
- Strong and flexible PET base film.
- High visible light transmission.
- High IR reflectivity.

## Benefits

- Silver alloy is resistant to oxidation.
- Conductive coating can be etched patterning.
- Completed window or in rolls, sheet or custom cuts

## Technical Information

This specification defines the requirements for Silver Conductive Film in both the 4 and 12 ohms/sq versions.

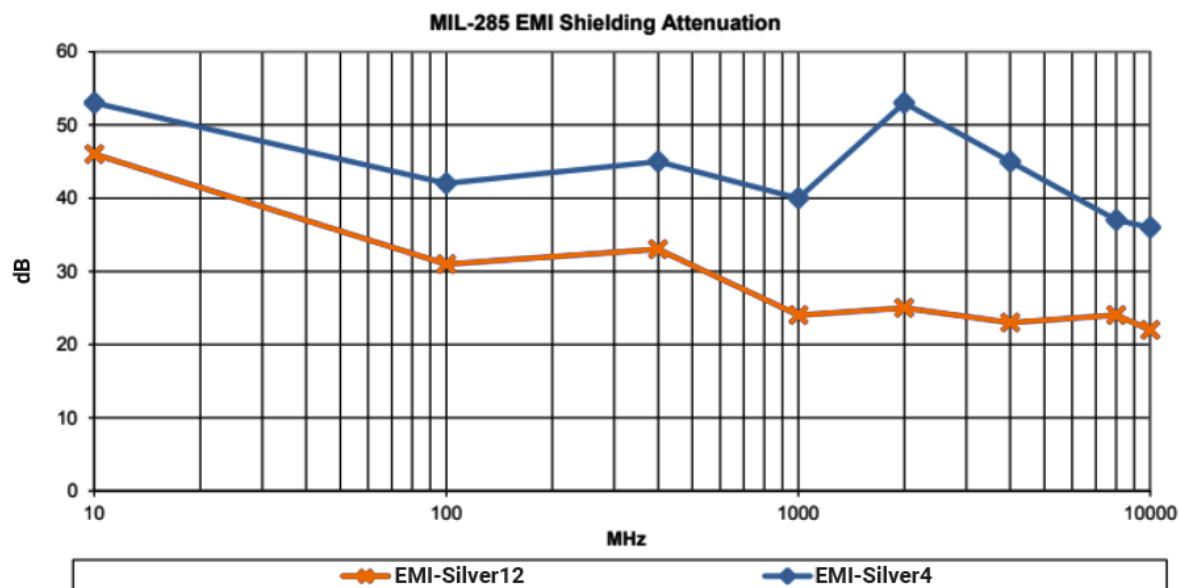
## Product Format

	Silver4	Silver12
Surface resistance	4 ohms/sq	12 ohms/sq
Base film	125µm	125µm
Optional optically clear pressure sensitive adhesive	100µm	100µm
Visible light transmission @ 550 nm	<82%	<86%
Color b*	5.0	4.0
Haze	0.50%	0.50%
Specular Reflectivity (30°) Conductive coating / Air interface	5.05%	0.80
Diffuse Reflectivity (30°) Conductive coating / Air interface	0.19%	0.16%
Specular Reflectivity (30°) Conductive coating / Optical bond interface	11.44%	2.20%
Diffuse Reflectivity (30°) Conductive coating / Optical bond interface	0.63%	0.20%

## Termination Method

Direct contact can be made to the conductive surface by a suitable conductive [fabric over foam gasket](#), [silver loaded silicone gasket](#) or by using a [copper, aluminum or tinned copper tape](#).

## Shielding Effectiveness



*This data is not to be stated as a pass/fail specification for Silver Conductive Film.*