

ESD FOIL 9800

Electrostatic-dissipative polyester film with adhesive backing.
ANTI-static & ATEWX film



9800 ESD foil is a transparent, static dissipative, self-adhesive polyester film. It includes a special coating on one side and a release film on the other side. The foil can be applied to flat, insulating surfaces.

Electrical properties

Property	Test standard	Typical value	Requirements
Surface resistance RS	EN 61340-2-3	10 ⁶ – 10 ⁸ Ω	1 x 10 ⁴ RP 1 x 10 ¹⁰ Ω EN 61340-5-1
Point to point resistance RP			

Chemical resistance

Samples were immersed in the specified chemicals for 24 hours at room temperature and then examined visually.

Chemical	Surface damage	Visual evaluation
Deionized water	None	Clear
30% Sulphuric acid	None	Clear
30% Nitric acid	None	Clear
30% HCL	None	Clear
Methanol	None	Clear
Ethanol	None	Clear
Isopropyl alcohol	None	Clear
Acetone	None	Slight change
Methylene chloride	None	Clear

Advantages

- High tear strength, clear, adhesive-backed polyester film
- Permanently electrostatic-dissipative coating
- Complies with EN 61340-5-1
- Humidity independent
- Very low tribocharge generation and excellent electrostatic decay performance
- High clarity, good chemical and abrasion resistance
- Ideal for PCB manufacturing and testing
- Suitable for clean manufacturing applications (retrofitting clean room windows, etc.)
- Can be used as transparency for copies
- Thickness: 0.1mm
- Maximum sheet/roll width: 1220mm



any width can be produced

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Typical physical properties

Property	Test method	Unit	(100 microns)
Tensile strength			
MD	ASTM D-882A	PSI	25.000
TD	ASTM D-882A	PSI	35.000
Yield strength			
MD	ASTM D-882A	PSI	14.000
TD			14.000
Elongation at break			
MD	ASTM D-882A	%	200
TD			120
Pencil hardness			
Hardness	ASTM D-3363	Hardness scale	3H
Optical			
Transmittance – total visible			85
Transmittance – total UV	ASTM D-1003	%	10
Haze			7.3
MD = Machine Direction TD- Transversal Direction			

Applying the foil - step by step

Step 1

- Measure the usable area
- Cut the foil to size, adding 2 cm on each side (the extra will be cut off afterwards)

Step 2

- Moisten the surface to which the foil will be applied with water from a spray bottle. The surface should be wet during the entire application process.

Step 3

- Stick a piece of adhesive tape on one edge of the foil to easily pull off the transparent protection film.
- Moisten the adhesive on the foil with the spray bottle.

Step 4

- Carefully apply the wet, sticky side of the foil to the wet surface. It is important that both sides are moist.
- Smooth the foil carefully to avoid creases or bubbles.

Please note: in exceptional cases, the top layer can be affected by acids, for example from the skin. To protect the conductive layer, you can apply a transparent foil or use the adhesive side on top.

Small optical defects are allowed in this product. If you require a product that is absolutely free from optical defects, please contact us for the "superior selected quality". Due to the extreme caution needed to produce these products, they can be several times more expensive.

ORDER EXAMPLE

Series	Width (mm)	Length (mm)
9800	Width of the visible area in mm. Max. width 1220mm	Length of the visible area in mm

*Notice

Information supplied in these data sheets is based on independent and laboratory tests which Holland Shielding Systems BV, hereafter referred to as HSS believes to be reliable. HSS has no control over the design of customer's product which incorporates products, therefore it is the responsibility of the user to determine the suitability for his particular application and we recommend that the user make his own test to determine suitability.

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