

COPPER GRID PET FILM 9400

PET film deposited with copper grid and protected with a nickel layer



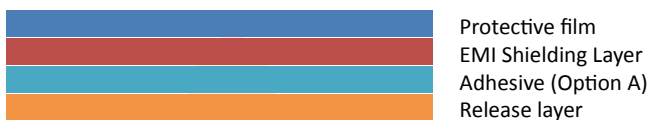
This transparent conductive Metal Mesh PET film is optical PET film deposited with copper grid and protected with a nickel layer. This film conducts better than our best 9900 series Transparent shielding foil and is only a fraction less transparent. This film has a conductive layer with a very fine etched mesh that is one with the transparent carrier.

Transparent conductive Metal Mesh PET film remains very high transparency, this film is extreme low resistance for high frequency EMI shielding application and is easy to apply. The copper mesh is almost invisible.

- Film thickness : 75-100um
- Transparency : >80%

STRUCTURE

Protective film + EMI shielding layer + optical adhesive (option A) + release layer. Due to the random structure none or almost no moiré effect is visible when applied to an display.



FEATURES

- Conductive layer flexible and durable, surface resistance and basic PET thickness customized available, conductive side hard coating available
- RoHS certificate

APPLICATION

- Confidential meeting room
- Computer room
- Hospital
- Display & windows EMI shielding

STANDARD SIZE

- As sheet : (550mm x 1050mm)
- In form : (550 x 1050mm conductive area)
- When you want to order 9400 series Transparent EMI shielding copper grid PET film in form, please send you CAD drawing.

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

Small optical defects are allowed in this product. If you require a product that has absolutely no optical defect then contact us for the "superior selected quality". Please realize that by the extreme caution act in production these products can be several times more expensive.

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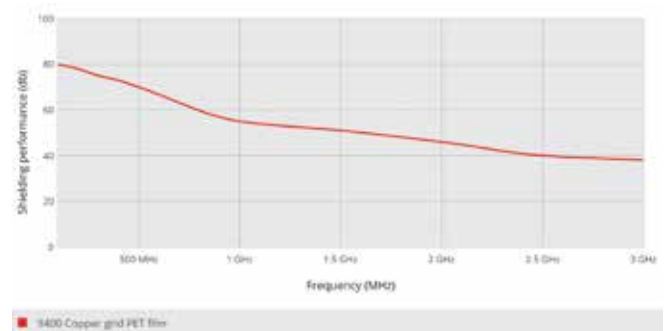
TRANSPARENT EMI SHIELDING COPPER GRID PET FILM TECHNICAL DATA

Item	Unit	Performance index		Detection method	Remark
		85 Mesh/OPI	250 Mesh/OPI		
Protective film	μm	50-60		ASTM D374	Material: PE
EMI Shielding Layer	μm	100±5			Material: PET
Adhesive	μm	20±5			Optical acrylic adhesive gum
Release layer	μm	38±5			Material: PET
Mesh shape		45° quadrate			
Mesh width	μm	15	25		
Mesh spacing	μm	300	100		
Visible light transmittance	%	≥80	≥40	GB/T 2410-2008	
Surface resistance (conductive side)	Ω/□	≤0.2, ≤0.4, ≤0.6	≤0.1	85 Mesh : four point probe 250 Mesh : CDE resmap	
Adhesive force (conductive side)		At least two-stage		GB/T 9286-1998	
Gum peel strength	G/25mm	≥100		GB/T 2792-1998	For glass panel
Wet-hot resisting performance	Resistance variation	≤30		65 °C, 90%, 100hours	ΔR/R ₀
	Light transmittance change	≤5			ΔT/T ₀
Shielding Effectiveness		In30MH~1000MHz damping capacity ≥ 30dB		SJ 20524-1995	

SPECIFICATION

Item	Value	Remarks
Basic thickness	75~100μm	Thickness tester
VLT	≥80%	Haze tester
Adhesion strength	500~1500gf/25mm	To glass
Adhesion between PET and conductive layer	Grade 2	GB-9286-88
See our guarantee		

SHIELDING PERFORMANCE*



ORDER EXAMPLE

Series	Width (mm)	Length (mm)	Adhesive
9400			
Transparent EMI shielding copper grid PET film	Width in mm	Length in mm	A : With adhesive N : No adhesive (foil only)

*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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