

Conductive Transparent glass for TFT Displays – E Series

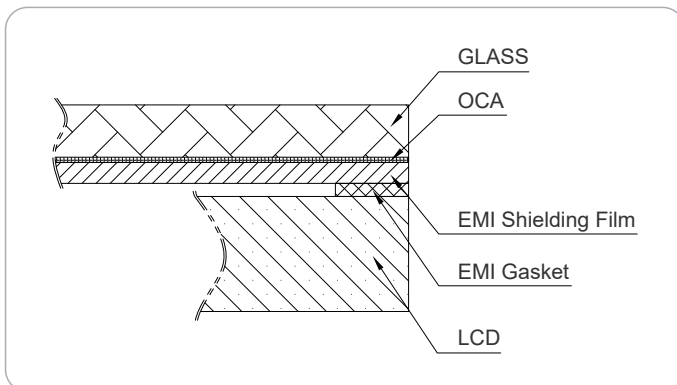
Sensitive medical, military or aerospace applications are subject to strict regulations concerning electromagnetic interference. In order to meet these requirements with our TFT displays and to shield the interference of the TFT cell, we use conductive transparent EMI mesh foil laminated to glass or plastic substrates such as acrylic, polycarbonate or polyester (PET) etc. The silver-coated gasket, busbar are used for grounding via the TFT display bezel.

Applications

- Military displays
- Medical equipment and MRI rooms
- Marine
- Avionics
- In-flight entertainment displays
- Secure TEMPEST equipment
- Test and measurement

Fitting options

- Optical Bonding
- Cover window : PMMA, PC, Glass and etc...
- Extra contact edge options
 - EMI Gasket : Silver busbar, Copper edges for grounding



Specifications

SPECIFICATION		Model		Test Method
		NEF100		
Available size		~75"		
Cover Window		Clear or AG glass on standard, Various version		
EMI electromagnetic shielding film	Protective Film	μm	50±5μm	ASTM D374
	Conductive layer	μm	100±5μm	
	Adhesive	μm	20±5μm	
	Release Liner	μm	38±5μm	
Mesh type & angle		Square 45 degree		
Line width		μm	11μm	
Line distance		μm	290μm	
VLT		%	≥82%	GB/T 2410-2008
Surface resistance (conductive side)		Ω/□	≤0.3Ω/□	4 probe tester
Adhesion (conductive side)		At least reach two grade		GB/T 9286-1998
Adhesion peel strength		g/25mm	≥100	GB/T 9286-1998
Moisture & heat Test	Resistance change	%	≤10%	65℃ , 90%, 100hr
	VLT change	%	≤5%	

EMI SHIELDING PERFORMANCE

Item	Transmittance	Frequency / shielding dB						
		30MHz	100MHz	300MHz	500MHz	800MHz	1GHz	1.5GHz
NEF100	>82%	48	46	44	42	42	41	38

* The specification is subject to change without prior notice