

COMPELMA S.A.S

EMI electromagnetic shielding film

This film is designed for window and LCD display anti radiation EMI shielding. Optical PET substrate deposited with a micron mesh of copper anti oxidation. The film can be coated with optical adhesive to stick on glass directly, or can be laminated with non adhesive film.

item	unit	Performance Index			Detection Method	Remark	
		COMT 100	MFHP	MFLP			
Thickness	Protective film	μm	50~60			ASTM D374	Material:PE
	Transparent conductive film	μm	100±5				Material:PET
	Adhesive	μm	20±5				Optical pressure sensitive adhesive
	Release liner	μm	38±5				Material:PET
Mesh shape			square 45 degree grid				
Mesh width		μm	17	17	21		
Mesh spacing		μm	238	143	255		
Visible light transmittance		%	≥80	≥75	≥81	GB/T 2410-2008	
Surface resistance (conductive side)		W/□	≤0.2	≤0.2	0.1	Four probe surface resistance tester	
Adhesion (conductive side)			At least reach grade 2			GB/T 9286-1998	
Adhesive peel strength		g/25mm	≥100			GB/T 2792-1998	For glass panel
Wet-heat resistant property	Resistance variation	%	≤30			65℃、90% 100hours	ΔR/R0
	Light transmittance change	%	≤5				ΔT/T0

Model	Transmittance	Frequency										
		14K	100K	10M	30M	150M	450M	950M	1G	3G	6G	10G
COMT 100 770mm wide 100 OPI	>80%	8	9	32	41	66	51	47	47	35	31	26
MFHP Max 1500mm wide (150 OPI)	>75%	11	13	38	49	76	63	55	53	44	40	35
MFLP	≥81	8	9	30	40	63	50	45	45	35	30	25