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MANUFACTURERS OF OPTOLITE CONTRAST ENHANCEMENT FILTERS | SHIELDED WINDOWS - INSTRUMENT GLASSES | POLARISING FILTERS

## **OPTOLITE™ EMISHIELD MICROMESH**

Emishield Micromesh products which have been developed to give excellent shielding performance and offer unequalled light transmission and clarity. Furthermore Instrument Plastics can now offer 85, 100 and 150 OPI Micromesh variants which can be supplied with Protective film and adhesive if required. This means that the Micromesh can be directly applied to Glass or polycarbonate displays if needed. However in order to achieve the best optical finish as well as ensure longevity we would recommend integrating the mesh in a fully laminated window.

Physical	property parameters	97	9				
item			Perfo	rmance l	ndex		
		unit	IP-100	IP-150	IP-85	Detection Method	Remark
	Protective film	μm	50~60				Material:PE
Thickness	Transparent conductive film	μm	100±5				Material:PET
	Adhesive	μm	20±5 38±5				Optical pressure sensitive adhesive
	Release liner	μm					Material:PET
Mesh shap	Mesh shape		square	45 degre	ee 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	≤0.2	Four probe surface resistance tester	
Adhesion (conductive side)			At least	reach tw	o-grade	GB/T 9286-1998	
Adhesive peel strength		g/25mm	≥100			GB/T 2792-1998	For glass panel
Wet-heat	Resistance variation	%	≤30		65℃、90%	ΔR/R0	
resistant pro	perty Light transmittance change	%	≤5			100hours	ΔΤ/Τ0

Main performance												
Model	Transmittance	Frequency(DB)										
		14K	100K	10M	30M	150M	450M	950M	1G	3G	6G	10G
IP-100 (100 Mesh)	>80%	8	9	32	41	66	51	47	47	35	31	26
IP-150 (150 Mesh)	>75%	11	13	38	49	76	63	55	53	44	40	35
IP-85 (85 Mesh)	>81%	8	9	30	40	63	50	45	45	35	30	25