EMI-ito15 Conductive Film

EMI-ito15 is a is a highly conductive coated optically clear polyester film. The combination of high visible light transmission, near neutral colour and low electrical resistance make an ideal EMI/RFI shield for electronic displays, touch screen and membrane switch panels requiring moderate shielding effectiveness and high quality optical properties. The thin film is ideal for easy integration into optical stacks and displays.

Product Format

EMI-ito15 is a 175micron polyester film with a vacuum deposited conductive coating on one surface. This coating is durable and is not liable to cosmetic damage such as oxidisation from moisture or finger prints like a silver based coating.

Parts are precision cut by our zero width X-Y CNC. Full CAD/CAM ability means we have no tooling charges (we can work directly from drawings or electronic files) and the delivery lead time is very short. EMI-ito15 can also be supplied in sheets or rolls, maximum standard web width = 760mm.

Application Notes

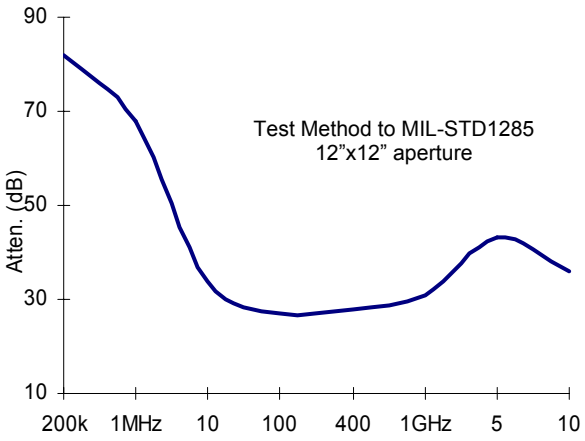
Parts can be supplied fitted with a PSA gasket on the non-conductive side for ease of assembly or to provide spacing to prevent the optical distortions (Newton Rings).

Termination Method

Direct contact can be made to the conductive surface by a suitable conductive fabric over foam gasket, silver loaded silicone gasket or by a using an conductive adhesive tape such as Copper, Aluminium or Tinned Copper. Do not use busbar paints or gaskets containing metal wires.

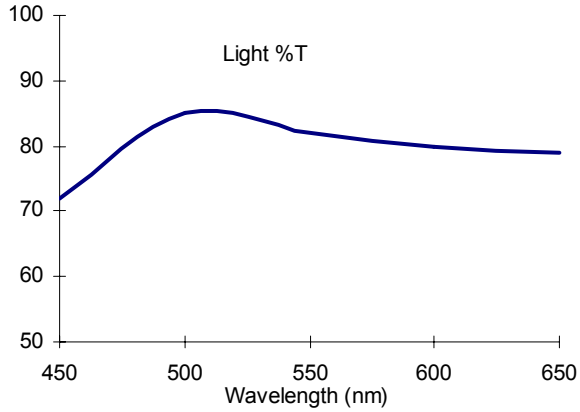
Shielding effectiveness

This graph is a guide to the typical shielding effectiveness of EMI-ito15.



Substrate properties

Visible light transmission >82% @550nm



Surface resistance:	15 ohms/sq	
Colour:	Clear	
Heat test (R/Ro)	1.03	150'c/30mins

Design Options & related products

- Optical lamination to solid substrate
- Near Infra Red blocking conductive filter
- EMI-ito conductive coated glass

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