

MANUFACTURERS OF OPTOLITE CONTRAST ENHANCEMENT FILTERS
SHIELDED WINDOWS – INSTRUMENT GLASSES
POLARISING FILTERS

Optolite™ Contrast Enhancement Filters for Electronic Displays

Optolite optical grade acrylic filters have been specifically formulated by Instrument Plastics Ltd to optimise the readability of electronic displays under adverse conditions by enhancing contrast and reducing glare whilst improving the appearance of the display.

Services Offered

- Advice on selection and design of filters
- Samples available on request
- Range of standard colours to suit most display applications
- Choice of standard thicknesses 0.5, 1, 1.5, 2, 3mm
- Selected range of Non Glare finishes
- Preparation of artwork, photography and silk screening
- Competitive prices
- Fabrication to individual requirements, from one-off prototypes to full production
- Rapid delivery

Other Optolite Products

- Flat or curved screens for CRTs with optional bezels
- Shielded windows for EMI/RFI protection
- Infra Red filters
- Diffusers for point light sources and back lit LCDs

Also Available

- Accurately cast lenses to +/-0.1mm thickness tolerance
- Colour matching to customer requirements
- Non standard thicknesses

Instrument Plastics Ltd are able to draw on wide expertise and are pleased to advise and assist in the design and selection of the most suitable type of filter for each individual application.

Selection of Filters

Readability

The most important factor for all types of electronic display is readability, which can be difficult under conditions ranging from darkness to bright sunlight. Also, reflected light from the display can cause further viewing difficulties.

Method of Operation

Optolite optical grade filters have been developed to overcome these problems. Readability is improved by increasing the relative contrast between the lit and unlit parts of the display. Band pass filters increase contrast by passing the wavelengths of light from the display whilst partially absorbing other wavelengths of ambient light. Selected optolite colours are available which are matched to the transmission characteristics of the display.

Factors to Consider

When matching optolite filters to particular displays to obtain optimum contrast, careful consideration should be given to the transmission curve, shape, attenuation at peak wavelength, wavelength cut off and front surface reflectance. The design needs to consider aesthetics as the appearance of the finished product should also be enhanced. Optolite filters provide the most cost-effective answer to display improvement where the performance of a circular polariser may be partially traded off against price.

Non Glare Finishes

Optolite filters are available with various grades of optional cast-in non-glare finishes. They are manufactured to customer specifications to produce either filters or display panels. The cast-in finish offers advantages in that it cannot chip, peel or rub off.

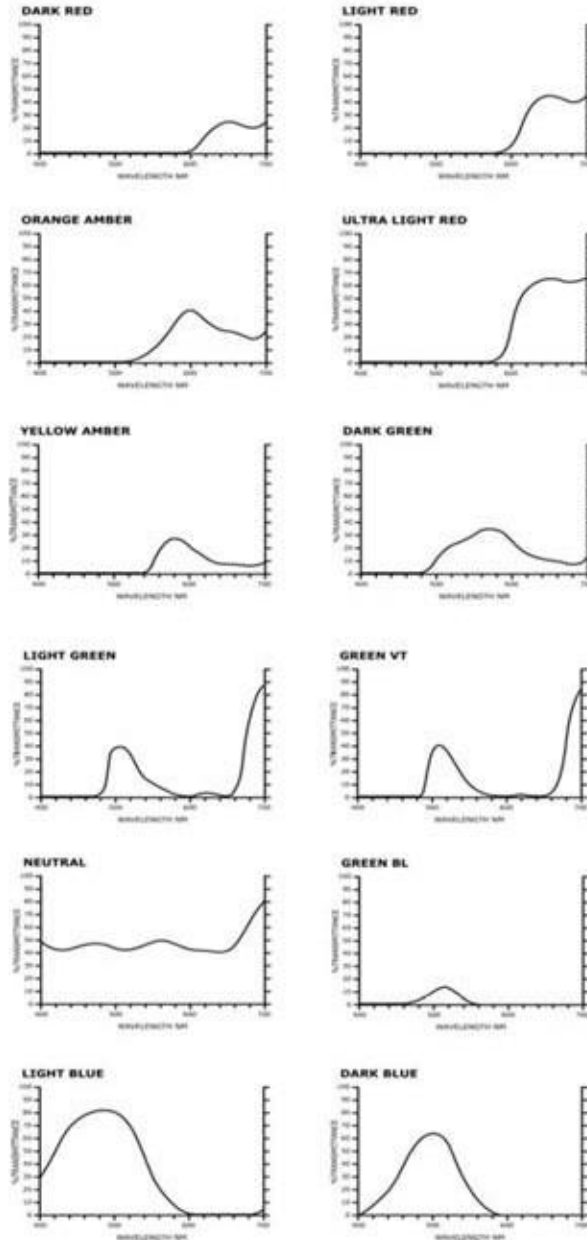


For Further information Contact Sales@instrumentplastics.co.uk

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Optolite™ Filter Application Summary

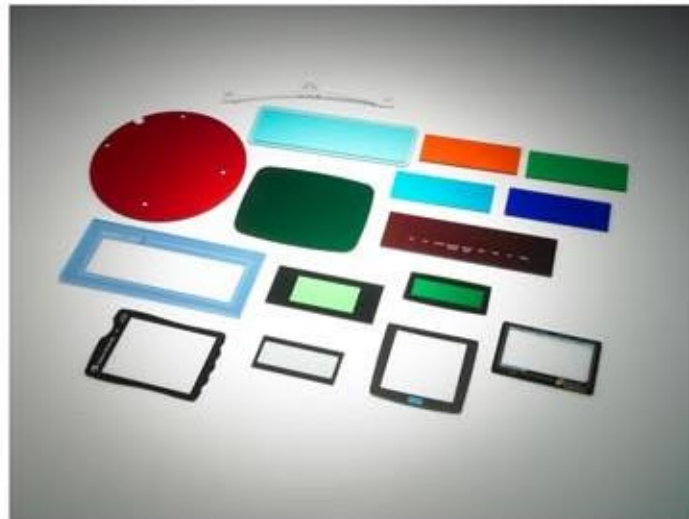
Display Type	Dark Red	Light Red	Ultra Light Red	Orange Amber	Yellow Amber	Dark Green	Light Green	Green VT	Green BL	Neutral	Dark Blue	Light Blue	Yellow	Clear
LED – Standard Red H.E. Red Orange Yellow Green	** **	** ** ** **	** **			**	** ** ** **							
Vacuum Fluorescent		**	**	**	**	**	**	**	**					
Electro Luminescent			**	**			**	**						
Plasma Displays		**	**				**	**						
LCDs												**	**	
CRT (+)		**	**	**	**	**	**	**	**	**	**	**	**	

+ Filter depends on CRT Phosphor

Thickness: 0.5, 1, 1.5, 2, 3mm

Non Glare Finishes
(Gloss Levels, Relative Reflectance)

NG Grade M - 30 units
NG Grade F - 50 units



Instrument Plastics Limited has a policy of continual improvement of products and so reserves the right to change the product specification without notice.

