

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

## Vikuiti™ Circular Polarising Filters

**Instrument Plastics Limited** is an Authorised Distributor for 3M Polarising filters, and supplies custommade polarising and Optolite non-polarising filters designed to optimise the readability of electronic displays by enhancing contrast and reducing glare. Specialist linear polarising products and wave retarders are also available for applications such as stress analysis, 3-D and photography.

**Instrument Plastics Limited** are professionals in the industry and offer customers:

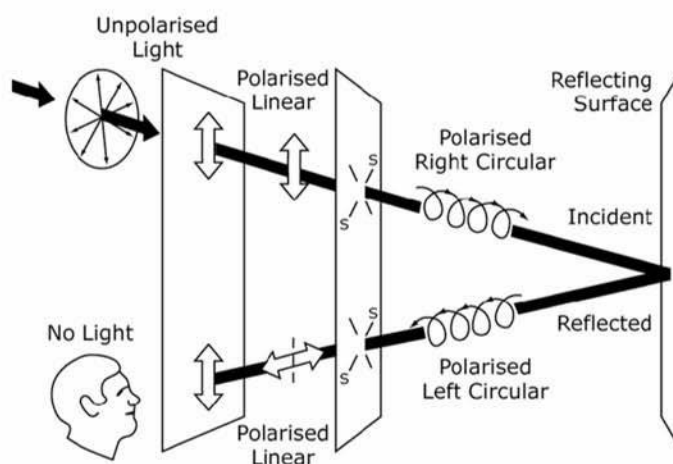
- production to customer specifications
- short delivery times
- competitive prices
- wide range of materials
- small samples of materials on request

Proven expertise in CNC machining, drilling, routing, silk screen printing, engraving and forming are additional services available from **Instrument Plastics Limited**.

Existing customers include major companies in aerospace, defence, scientific, medical, electronic, electronic component, stress analysis and photographic industries.

## Circular Polarisers

A circular polariser comprises a linear polariser and a 1/4 wave retarder whose slow and fast axes are at 45° to the axis of the polariser. A ray of unpolarised light, passing through the linear polariser, becomes polarised at 45° to the axis of the retarder. When this polarised light ray passes through the retarder its vibration direction is made to move in a helical pattern. After the light ray is reflected from a specular surface the sense of rotation of the vibration reverses. This rotation is stopped in the return through the retarder. The light ray is now linearly polarised in a plane 90° to its original polarisation plane, and is absorbed by the linearly polarised component of the circular polariser. A circular polariser effectively acts like a light valve blocking light completely and therefore offers the **ultimate in contrast enhancement**.



Linear Polariser Layer + Quarter Wave Retarder = Circular Polariser

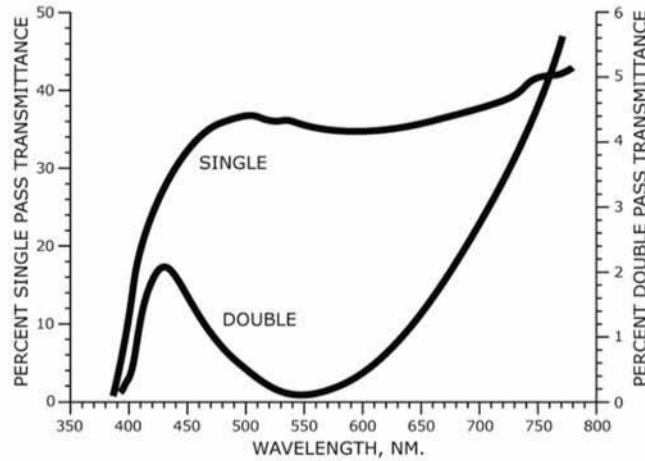


For Further information Contact [Sales@instrumentplastics.co.uk](mailto:Sales@instrumentplastics.co.uk)

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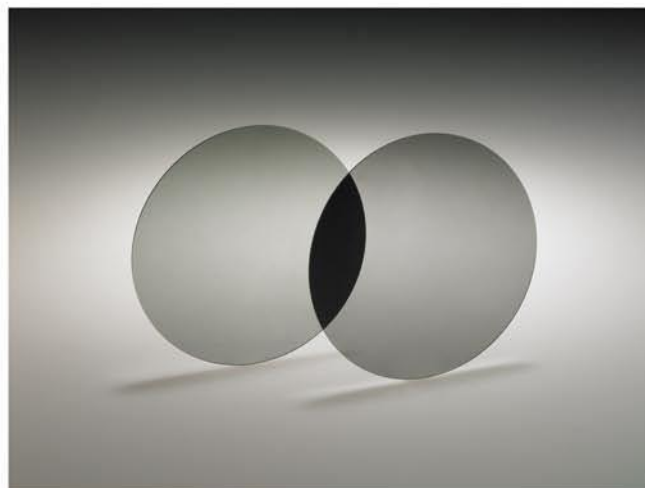


**Polariser:** HNCP37  
**Type:** Neutral circular polariser

**Thickness Tolerance Information:**

0.76mm +0.05/-0.10mm, 1.83mm +0.36/-0.46mm, 3.35mm +/-0.64mm, 4.83 +/-0.46mm

Non standard colours and thicknesses are available on request.



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