



Consolite Technology Data Sheet

Material Ref: CTL-R169-2

Function: Filter Material, High Contrast, Green LED Display, ITO Coated

Description

The material is an absorption filter of polymeric construction developed specifically for a major ground equipment programme. It is optimised for use with a green LED display, of nominally 570nm peak wavelength, to provide full compliance with MIL-STD-3009 and the US CECOM secure lighting requirements.

It also functions as a very efficient contrast enhancement filter as the narrow band spectral transmission peak is closely matched to the LED emissions to ensure optimum visibility of the display. It has a laminated ITO coated film to the rear with nominal resistivity 50 Ω/\square .

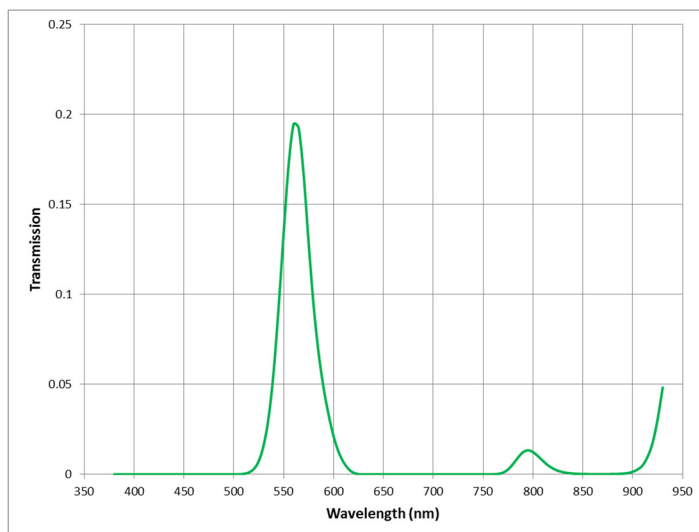
Nominal thickness: 2.0mm

Performance

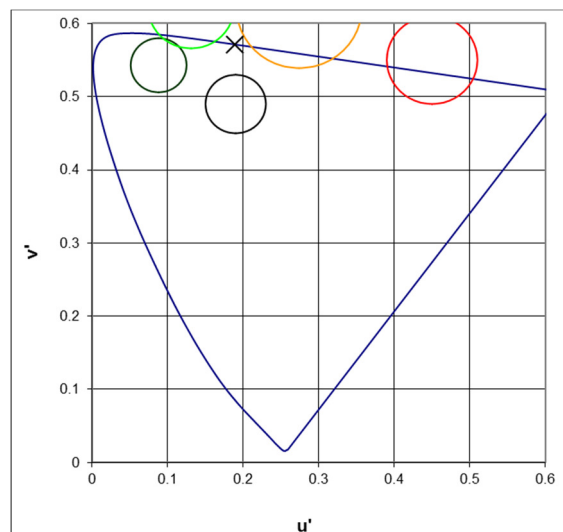
Indicative performance figures below are quoted for CTL-R169-2 in combination with a typical LED display of peak wavelength 570nm, and may vary.

Display NVIS Radiance per MIL-STD-3009 @ 0.1fL		Integrated Radiance % (700-930nm) (380-930nm)	Chromaticity		Photopic transmission
NR _A	NR _B		u'	v'	
6.10E-11	5.03E-12	< 0.04%	.189	.571	12%

Spectral Transmission



Chromaticity Coordinates (CIE 1976)



Consolite Technology Limited, St. Martins Business Park, Bells Lane, Zeals, Wiltshire, BA12 6LY, UK

Tel: +44 (0)1747 840900
e-mail: sales@consolite.co.uk

Fax: +44 (0)1747 841500
Web: www.consolite.co.uk

Issue: 6