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Film Optics Ltd

180 LPI Lenticular Film

L180/250PC

Technical Specification

Date 5th January 2017, Issue Number 2

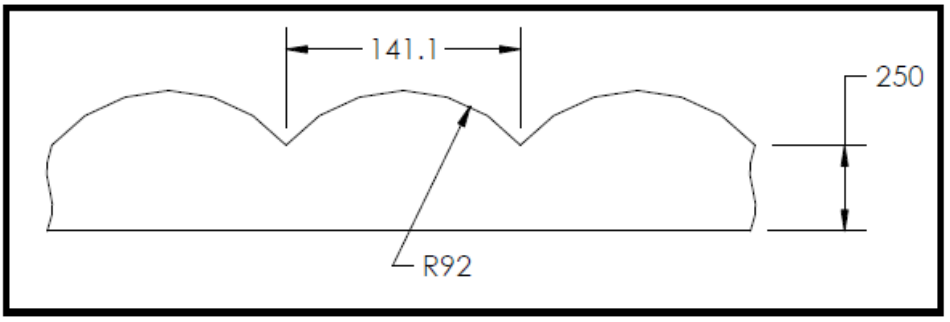
Description

180lpi lenticular film produced on the surface of a 250 micron Polycarbonate base film by U.V. casting with acrylic based lacquer.

Applications

Used in lenticular printing and auto-stereoscopic display applications. Used as a diffuser in lighting applications.

Structure



Parameter	Value	Tolerance	Remarks
Structure Height	30 microns	+/- 2 microns	
Pitch	141.1 microns	<1 micron	180 LPI
Lenticular Radius	92 microns	+/- 3 microns	
Viewing Angle	40°	+/- 2°	Collimated light incident on structure side
	30 – 60cm		
	96%	+/-2%	Light incident on prism side
Haze	86%	+/- 2%	Light incident on prism side
Base film material	250 microns		Polycarbonate (PC)
Total thickness	280 microns	+/- 5 microns	
Product format	On reel		Produce on reels (structure parallel to long edge)
Film width	1000mm		Can be slit to widths up to 1000mm

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Handling

As with all precision optical films care should be taken when handling. Surgical gloves should be worn to avoid fingerprinting. Care should be taken to avoid scratching the film surface. Films should be handled in a clean, dust free environment with a liner used on surfaces to protect the structure. The film can be easily cut using a guillotine, sharp bladed knife or scissors.

Storage

To maintain the quality of this product, store in a cool dry place (0-50°C) away from direct sunlight or heat, and do not store with strong oxidizing agents or amines.

Transportation

Not regulated

Disposal

This product is not considered as hazardous under current EPA hazardous waste regulations, and maybe disposed of by recylcing (Main component polycarbonate), incineration or landfill. All disposal should be done in accordance with state and local regulations

Sales contact details

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