

# 3M Privacy Filter ALCF-P ABR2 Specifications

Data Sheet

November, 2011

**Description** This document provides customer specifications for Advanced Light Control Film ALCF-P ABR2

**Applications** ALCF-P ABR2 is a microreplicated film that controls the amount of light that passes through the film at high angles. At small angles, close to perpendicular to the surface of the privacy filter, the majority of the incident light is transmitted through the privacy filter. At angles outside of the 60 degree viewing angle, light is absorbed by the black louvers providing the user with privacy.

## Material

Outer Substrates: Polycarbonate  
Louver Layer: Acrylic Resin and Carbon Black

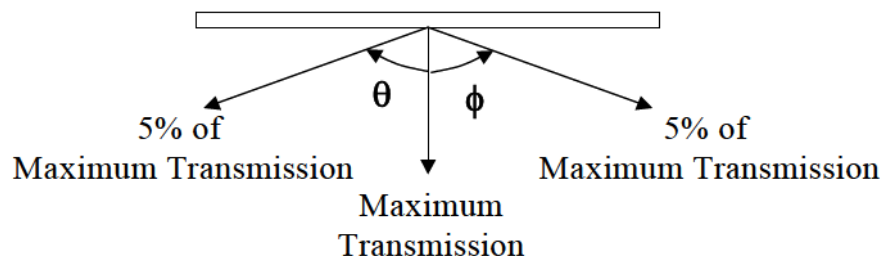
## Typical Properties

Property (Test Method)	Typical Value
Viewing Angle	$60^{\circ} \pm 4^{\circ}$
Louver Angle	$0^{\circ} \pm 2^{\circ}$
Color	1931 CIE x Color Coordinate: $0.317 \pm 0.02$ 1931 CIE y Color Coordinate: $0.335 \pm 0.02$
Nominal thickness	$0.53 \pm 0.08$ mm
Heat resistance	$60^{\circ}\text{C}$ , 15% relative humidity, 7 days
Humidity resistance	$40^{\circ}\text{C}$ , 85% relative humidity, 7 days
Thermal shock resistance	$-35^{\circ}$ to $60^{\circ}$ C for 10 total cycles at 11 hours per cycle

Unless otherwise noted, all tests are performed at room temperature

## Viewing Angle Definition

- Viewing Angle – The sum of the angles ( $\theta$  and  $\phi$ ), measured from the angle of maximum transmission, at which only 5% of the maximum transmission is transmitted through the film.



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**Attachment** Each ALCF-P ABR2 Privacy Filter is accompanied with two types of attachment systems. The first is a selection of adhesive strips and the second is a set of adhesive guides.

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**Availability** For availability, please contact our customer service group at 1-800-553-9215 or visit our website at [3mprivacyfilter.com](http://3mprivacyfilter.com)

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