

3M Privacy Filter ALCF-P ABR0 Specifications

Data Sheet

December, 2011

Description This document provides customer specifications for Advanced Light Control Film ALCF-P ABR0

Applications ALCF-P ABR0 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

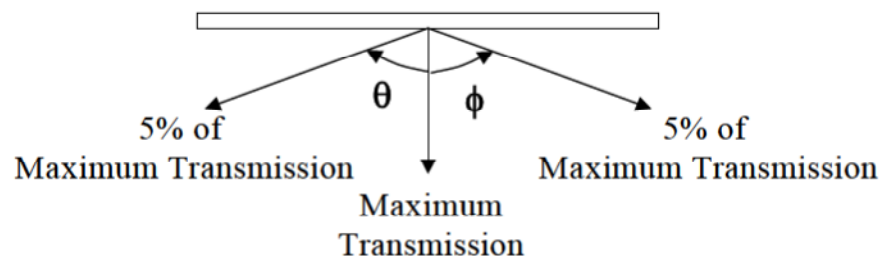
Typical Properties

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 ± 0.02 1931 CIE y Color Coordinate: 0.335 ± 0.02
Nominal thickness	0.53 ± 0.08 mm
Heat resistance	60°C , 15% relative humidity, 7 days
Humidity resistance	40°C , 85% relative humidity, 7 days
Thermal shock resistance	-35° to 60° 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 (θ and ϕ), measured from the angle of maximum transmission, at which only 5% of the maximum transmission is transmitted through the film.



Protective Liners ALCF-P ABR0 Privacy Filter kits have protective liners on both sides of the glossy privacy film to protect during shipping, handling, or laminating.

Availability For availability, please contact our customer service group at 1-800-553-9215 or visit our website at 3mprivacyfilter.com

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