

3 Privacy Filter ALCF-P ABR0 Specifications

Preliminary Technical Data Sheet

February, 2016

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

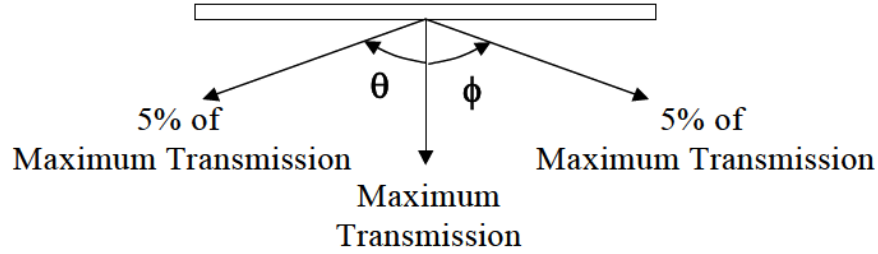
Outer Substrates: Non-Hardcoated Gloss Polycarbonate
Louver Layer: Acrylic Resin and Carbon Black

Typical Properties

Property (Test Method)	Typical Value
Viewing Angle	60° ± 4°
Louver Angle	0° ± 2°
Nominal thickness	0.53 ± 0.08 mm
Cold resistance	-40°C, 500 hours
Heat resistance	85°C, 500 hours
Humidity resistance	65°C, 95% relative humidity, 500 hours
Thermal shock resistance	-40° to 85° C for 100 total cycles at 1 hour per cycle
Color Change	Delta E 2.0

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

Important Notice

The following is made in lieu of all warranties, express or implied, including any implied warranties of merchantability or fitness for a particular purpose.

3M warrants that, at the time of shipment, product will meet 3M's published specification or that specification agreed in writing between 3M and purchaser. Should product not meet specifications at time of shipment, 3M will replace or refund the purchase price of such quantity of the product found not to meet specifications. Purchaser shall determine the suitability of the 3M Product for purchaser's application. **3M shall not be liable under any legal theory, including in contract or in tort, for any injury, loss, or damage, whether direct, indirect, incidental, special or consequential, arising out of the use of or the inability to use the product.**

The warranties and remedies set forth herein are purchaser's sole and exclusive warranties and remedies.

3M is a trademark of 3M Company

3

Mobile Interactive Solutions Division
Bldg. 235-1E-54/3M Center
St. Paul, MN 55144-1000
800-553-9215
www.3mprivacyfilter.com