

# 3M Black Privacy Filter (ALCF-P ABR2) Specifications

Technical Data Sheet

August 2018

**Customer** TBD

**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** Made in the USA with Globally Sourced Materials  
Outer Substrates: Polycarbonate  
Louver Layer: Acrylic Resin and Carbon Black

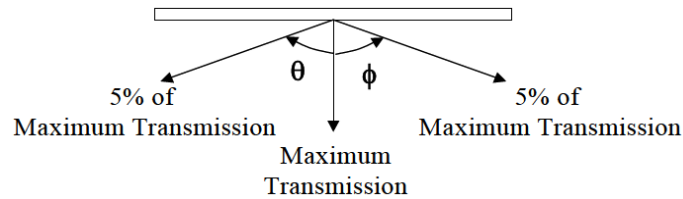
**Typical Properties:** Technical information provided consists of typical product data and should not be used for specification purposes. Unless otherwise noted, all tests are performed at room temperature.

Property (Test Method)	Typical Value
Viewing Angle	60°
Nominal thickness	0.53
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
Transmittance Clarity Haze (AG level) Blue Light Blocking AR	Nominal average value 68.5% Nominal average value 78.5% Nominal average value 15% Nominal Average > 35% NA
Anti-Fingerprint	AG level masks some fingerprinting and hard coat makes for ease of cleaning any oils and clean ability with different chemicals (see chemical resistance TDS).

## Optical Property Definition

- Transmittance – The ratio of radiant power transmitted by an object to the incident radiant power, expressed in percent.
- Haze – In transmission, the scattering of light by a specimen responsible for the reduction in contrast of objects viewed through it. The percent of transmitted light that is scattered so that its direction deviates more than a specified angle (2.5°) from the direction of the incident beam.
- Clarity – In transmission, the absence of haze in a material measured as a percentage of light that is scattered so that its direction deviates less than a specified angle (2.5°) from the direction of the incident beam.

- 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.



## Product Features

---

- **3M™ Privacy Filters fade to black starting at the 30-degree side angle**
- **Effective "black out" privacy from side views outside the 60-degree viewing angle**
- **Available in landscape or portrait mode**
- **Reversible between a glossy side and glare-reducing matte**
- **Maintains incredible image clarity**
- **Anti-glare coating**
- **Protects from everyday dust and scratches**
- **Easy to attach, remove and clean**
- **Reduces 35% of blue light transmission from the display**

**Protective Liners** ALCF-P ABR2 Privacy Filter kits have protective liners on both sides of the privacy film to protect during shipping, handling, or laminating.

---

**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.

---

**Availability** For availability, please contact your local sales representative or marketer.

---

## 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

Display Materials Solutions Division  
 Bldg. 235-1E-54/3M Center  
 St. Paul, MN 55144-1000  
 1- 800-553-9215  
[www.3Mscreens.com](http://www.3Mscreens.com)