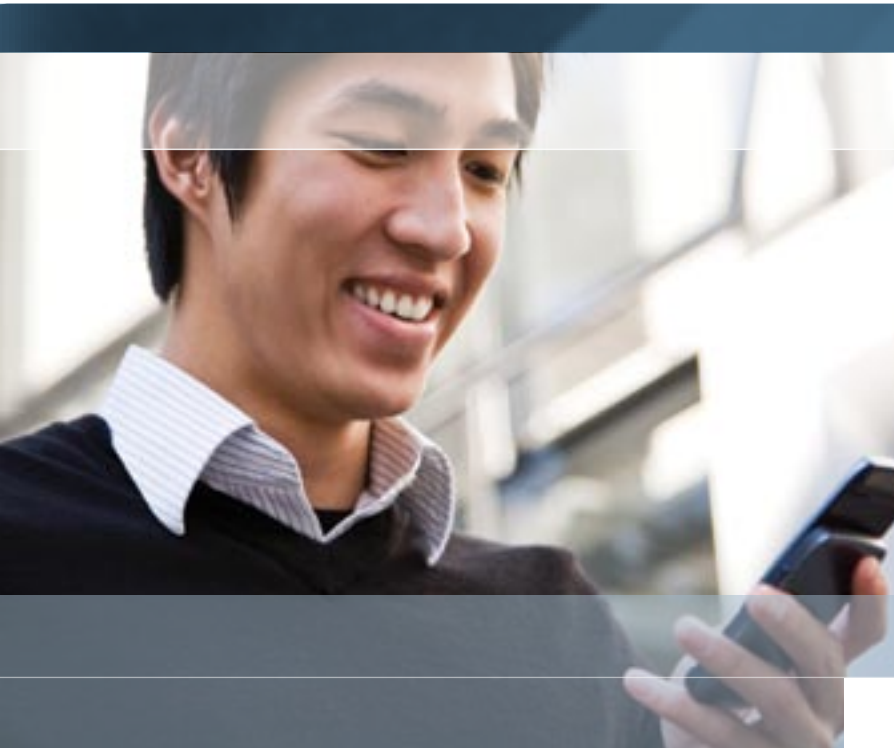


3M Optical Systems



Decrease
Reflections.
Increase contrast.



Vikuiti™ Anti-Reflection (AR) Film from 3M offers glare reduction and protection solutions for a wide variety of applications.

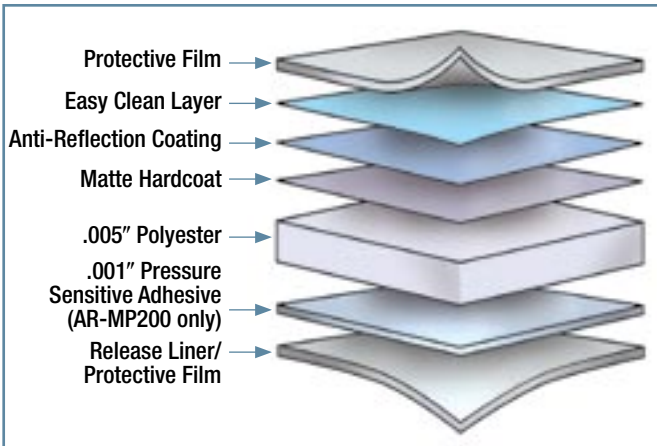
Utilizing patented 3M technology, Vikuiti AR films improve the performance of flat panel displays, CRTs and touch screens by decreasing reflections and increasing contrast. It can also be used to reduce unwanted reflections from windows, and in other non-display applications. Film features include low reflectivity, durability and a built-in easy-to-clean layer.



Vikuiti™ Anti-Reflection Film (AR)

How it works

Vikuiti AR films are specially engineered to reduce reflection and increase transmission of light at air/optical surface interfaces. This increases contrast ratio in displays and increases transmission through windows. In addition to this optical engineering, 3M incorporates a low surface energy component into the Vikuiti AR film, creating an easily cleaned surface.

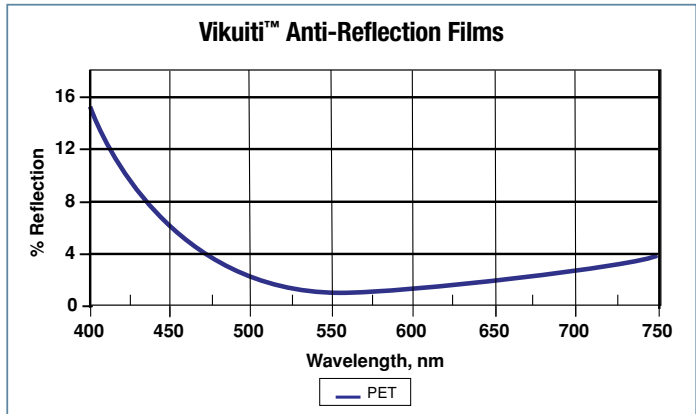


Product description

Product Name	Stock Number	Finish	PSA
Vikuiti™ AR-M200 Film	98-0440-2640-3	Matte	No
Vikuiti™ AR-MP200 Film	98-0440-4227-7	Matte	Yes

Reflectance spectrum

The graph shows the reflectance spectrum for Vikuiti AR-M200 film and Vikuiti AR-MP200 film.



Nominal film properties

Film properties	Vikuiti™ AR-M200 and AR-MP200 Film
Optics	
• Specular Reflectance	<1.1%
• Transmission	93%
• Haze	<= 7.0%
• Gloss at 60°	90-115 gloss units
Physical Characteristics	
• Adhesion	Cross hatch with Scotch® #610 tape - No delamination
• Hardness	=/> 3H pencil hardness on hardcoat side
• Abrasion	10 rubs #0000 steel wool at 160 g/cm ² - Light scratching
• Chemical resistance	Window cleaner, IPA, motor oil, coffee, permanent marker or water - No effect
• Flexibility	2cm mandrel - No crack in tension or compression
• Surface energy	<30 dynes/cm
• Substrate thickness	.005" polyester (PET)
• Format	13" x 22" (330mm x 559mm)
• PSA peel force to glass	>1000 g/in

The technical data for the products described are typical, based on information accumulated during their life, and are not to be used in the generation of purchase specifications which define property limits rather than typical performance.

Environmental test results

Environments	Results
Dry heat (80°C 500 hours)	Passed visual
Wet heat (65°C/95%RH)	Passed visual

Test results are based on the Vikuiti AR-MP200 film laminated to glass.

Important Notice to Purchaser

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.**



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