



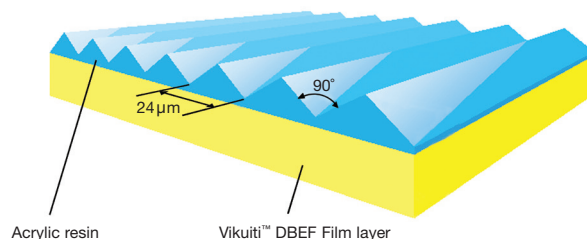
A family of products that offer both light angle and polarization management in a single, thin film

Vikuiti™ BEFRP 90/24 Film offers the latest innovation in light efficiency. It's the first product to combine the two technologies of light angle and polarization management into a single, thin film. This provides the equivalent brightness and functionality of two separate prism films. It can also improve the viewing angle. Vikuiti BEFRP 90/24 film delivers many other benefits such as having to use fewer films in the display and reflective moiré is reduced. Displays can be made thinner; and assembly costs can be cut because only one film is handled, rather than two. Vikuiti BEFRP 90/24 film is thinner than two separate films, and so is easier to integrate into design and manufacturing processes.

Typical Construction

Vikuiti™ BEFRP 90/24 Film

Product configuration



Typical construction of Vikuiti BEFRP film showing the prismatic structure overlaid onto the reflective polarizer (Vikuiti DBEF film) substrate, effectively combining the functions of two films (Vikuiti DBEF and BEF films) into a single film.

**FILM DESCRIPTION**

**Vikuiti™ BEFRP Film** The original version for the highest gain in this family of products.

**Vikuiti™ BEFRP2 Film** Uses improved DBEF substrate for 35 μm thinner version, and better color rendition. Gain is not appreciably different than BEFRP.

**Vikuiti™ BEFRP2-RC Film** Has a modified prism pattern for reduced moiré and better defect hiding. Also has a special coating for better imprint resistance and surface durability. Slightly less gain.

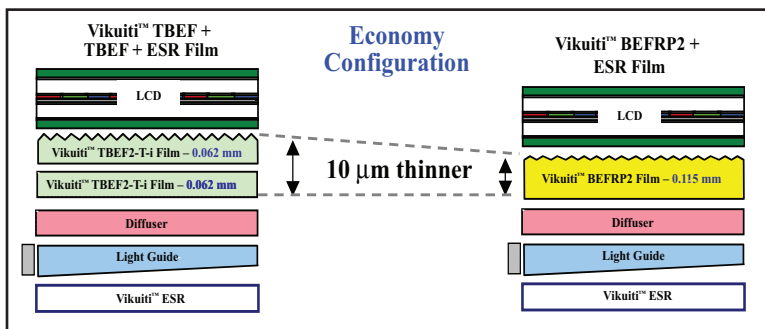
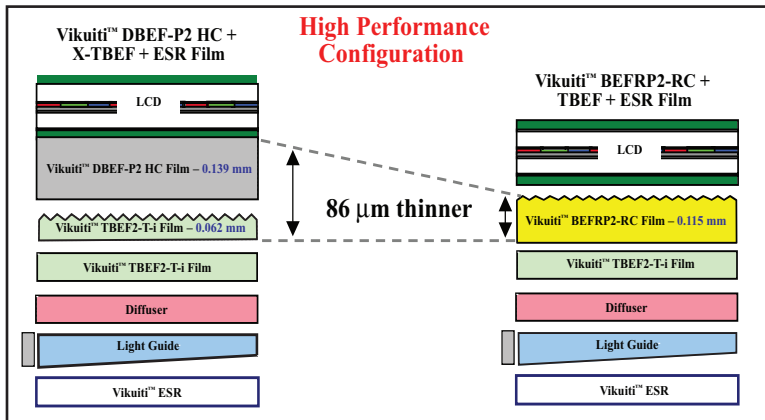
**SELECTION GUIDE\***

	Vikuiti™ BEFRP Film	Vikuiti™ BEFRP2 Film	Vikuiti™ BEFRP2-RC Film
Thickness (μm)	150	115	115
Prism Pattern	Straight	Straight	Random
MOF Surface Durability	—	—	Improved
Backlight Defect Hiding	—	—	Improved
Reflective Moiré (single use)	None	None	None
Reflective Moiré (w/prism film)	—	—	Improved
White Point Color	—	Improved	Improved
Brightness**	2~3% higher	2~3% higher	—

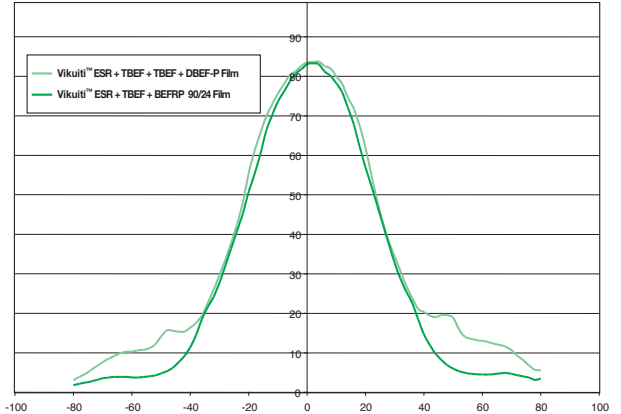
\*Vikuiti BEFRP film used as baseline, except in the case of brightness.

\*\*Vikuiti BEFRP2-RC film used as baseline.

**PROVIDING THINNER SOLUTIONS**



**VERTICAL VIEWING ANGLE CROSS-SECTION**



This graph shows how Vikuiti BEFRP film can replace one sheet of Vikuiti TBEF film and one sheet of Vikuiti DBEF film and still have very comparable viewing angle and axial luminance.

**TOTAL SYSTEM COST REDUCED WITH VIKUITI BEFRP FILM**

When considering all costs, including procurement, inventorying, administrative, and assembly, Vikuiti BEFRP film, in either the “economy” or “performance” configurations, will generally cost less than separate layers of Vikuiti DBEF and TBEF film, or two layers of Vikuiti TBEF film, and will be significantly thinner with practically the same or better optical performance.

**ENVIRONMENTAL TESTING**

All versions have been tested at low temperature (-40°C for 1000 hours), high temperature (85°C for 1000 hours), and high humidity/high temperature (65°C at 95% RH for 1000 hours) without any appreciable change in physical appearance or optical performance.

For ordering information, please call: 1-800-553-9215

For more information, visit us at: [www.Vikuiti.com](http://www.Vikuiti.com)

**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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