



Infrared Filter

Vikuiti™ Clear Card Filter



Technical Features:

- Enables transparent, fully ATM-functioning cards
- Easy adoption by adhering to PVC
- Custom sheet sizes available

Business Applications:

- Clear format enables exciting card design possibilities
- Increased area on card body improves design element prominence

One of the biggest developments in card design since plastic: nearly 100% clear cards.

The Vikuiti™ Clear Card Filter is a proprietary film from 3M that effectively blocks infrared light, so you can now create visibly transparent cards that work in standard ATMs exactly like traditional opaque cards:

- Laminated between two clear sheets of PVC, the clear, IR light-blocking Vikuiti clear card filter allows nearly 100% transmission of visible light. The result is a clear card with all the functionality of opaque cards.
- Proprietary 3M technology makes cards compatible in ATMs, POS scanners and other LED-related devices worldwide.
- Cards can accept traditional four-color printing in addition to a wide range of translucent inks, opening up whole new worlds of design and marketing possibilities.

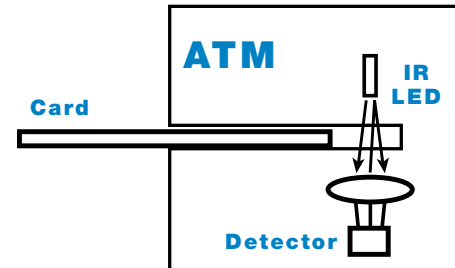
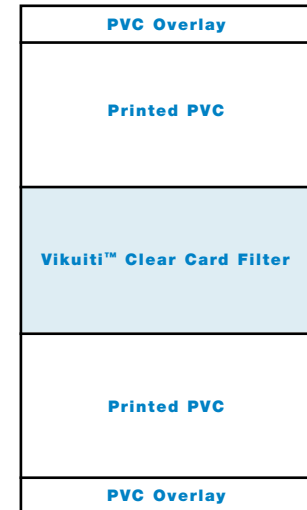
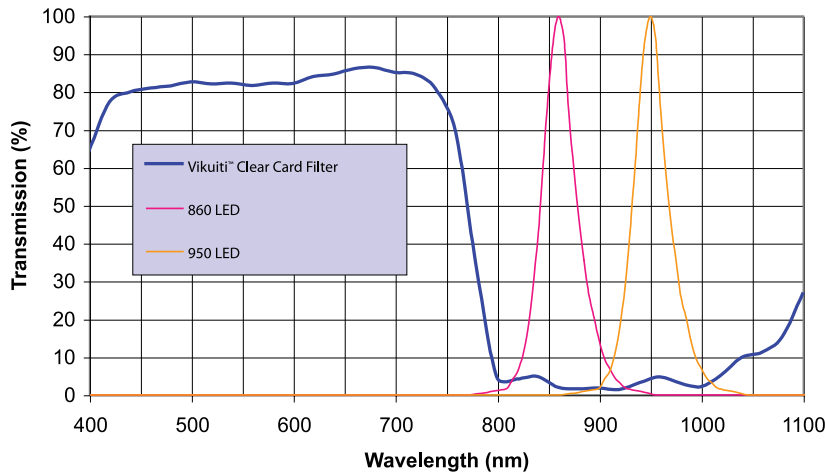
For a sample and more information, call [1-800-553-9215](tel:1-800-553-9215) or visit www.3M.com/imagineacard

Vikuiti™ Clear Card Filter

How it works

The Vikuiti™ Clear Card Filter utilizes 3M's proprietary multi-layer optical film to create an infrared blocking, visibly transmissive solution for transparent financial transaction cards. The optical film allows no more than 8% transmission of the LED light to reach the detector in ATMs or personalization equipment, which allows the card to function properly.

Typical Spectrum Vikuiti™ Clear Card Filter



Typical Clear Card Filter Properties

Filter Properties	Vikuiti™ Clear Card Filter
IR Transmission (860 and 950 LEDs)	<8%
Corner Impact (NCITS 322:2002)	PASS
Flexure Test (NCITS 322:2002)	>20,000 flexes
Peel Test (ISO 10373-1)	>0.35 N/mm
Thickness	11 mils

For ordering information on Vikuiti™ Clear Card Filter from 3M, please call: **1-800-553-9215**

For more information, visit us at: www.3M.com/imagineacard

Important Notice to Purchaser

The following is made in lieu of all warranties, express or implied, including any implied warranties or conditions 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 the 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 to purchaser's application, including but not limited to purchaser's choice of ink formulations used for printing on product. 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 will make commercially reasonable efforts to give notice of the Buyer Patents identified on Exhibit B to any 3M customer buying IR Filters that has indicated to 3M that it will use those IR Filters for financial transaction card(s). 3M hereby notifies you of the following patents: US Patent No. 60/153,112; US Patent No. 60/160,519; US Patent No. 60/167,405; US Patent No. 60/171,689; US Patent No. US 2002/0130186; US Patent No. US 2002/0145049; US Patent No. US 2003/0141373; US Patent No. D436,620; US Patent No. D438,562; US Patent No. D438,563; US Patent No. D442,222; US Patent No. D442,627; US Patent No. D442,628; US Patent No. D442,629; US Patent No. D443,298; US Patent No. D447,515; US Patent No. D449,336; US Patent No. 6,581,839; PCT Patent No. WO 01/18745.



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