

# 3M Graphics Market

Product Catalog

Inkjet Printing Materials and Solid Color Films

August 2015



# Products that Inspire Success



Greener Solutions



# The Surface Just the

## Innovations that Move an Industry

3M believes in helping companies build and protect their brands. That's why for more than 50 years 3M has been trusted by the world's largest companies to provide practical products that help companies succeed. Our track record of innovation and partnership in the visual communications industry means one thing: you can count on us to help you grow your business.

## Products that Perform

3M customers dare to lead the industry because they know they can rely on our products' performance. 3M uses the industry's most rigorous tests to ensure our products work with all related system components to produce graphics of unsurpassed quality, consistency and durability. Our comprehensive warranties prove our level of confidence.

## Technology that Advances Your Business

Relentlessly pursuing new ideas is in 3M's DNA. Our research and development teams, combined with our 40+ technology platforms, are a powerful force of ingenuity that consistently creates new opportunities for the industry and your business's growth.



# is Beginning



## Comprehensive Solutions

### Greater versatility

- Turn almost any surface into a brand-building environment
- Satisfy a variety of customer requirements and budgets

*3M™ Envision™, Scotchcal™, Controltac™ and Scotchlite™ Films*

### Faster installation and removal

- Increase productivity with fewer failures using the 3M patented adhesive system, films and application tools
- Benefit from easy, bubble-free installation for challenging applications

*3M™ Envision™ and Controltac™ Graphic Films with Comply™ v3 Adhesive*

### Good looks that last longer

- Offer customers a variety of graphic protection options such as graffiti protection, slip-resistance and gloss retention
- Gain the quality advantage of having high conformability, flexibility, durability and preferred finish

*3M™ Envision™ and Scotchcal™ Overlaminates and 3M™ Clear Coats*

- Provide the confidence of having the longest outdoor durability and most flexible inkjet ink solutions

*3M™ Digital Inks*

### Greener options

- Offer environmentally-friendly products that don't sacrifice performance
- Use leading-edge technology that's transforming the industry
- Help your customers use less energy or earn LEED® credits
- *Look for these products identified with a leaf*



Greener  
Solutions

### Greater visibility

- Ensure your customers increase their impressions with greater nighttime visibility
- Deliver the assurance of being seen

*3M™ Scotchlite™ Reflective Graphic Films*



# Applications at a Glance

## Inkjet Media

Number	IJ Media (IJ = forward wound, unnotched core)	APPLICATIONS										DESCRIPTION	Recommended Graphic Protection	
		Fleet (commercial trailer, truck, tractor) and Vehicle Graphics*	Vehicle Wraps	Watercraft	Transit (bus, passenger train)	Label (warning, informational)	Signage – Backlit	Signage – Non-Backlit	Awning	Smooth Walls	Textured Walls and Surfaces			Window or Glass
 <b>SV480Cv3</b> 	3M™ Envision™ Print Wrap Film SV480Cv3	■	■	■	■	■	■	■	■	■	■	■	A revolutionary, non-PVC film with a breakthrough boost in performance. Outperforms films IJ180Cv3, IJ380Cv3 and IJ8624. <b>For solvent/eco solvent and UV printers.</b>	8518, 8519, 8520, 8528, 8548G, 8549L, 8915, 1920DR, 9740i
 <b>LX480Cv3</b>	3M™ Envision™ Print Wrap Film LX480Cv3	■	■	■	■	■	■	■	■	■	■	■	A revolutionary, non-PVC film with a breakthrough boost in performance. Outperforms films IJ180Cv3, IJ380Cv3 and IJ8624. <b>For latex and UV printers.</b>	8518, 8519, 8520, 8528, 8548G, 8549L, 8915, 1920DR, 9740i
<b>IJ380Cv3</b>	3M™ Controltac™ Wrap Film with Comply™ v3 Adhesive IJ380Cv3	■	■	■	■	■	■	■	■	■	■	■	Excellent conformability and lifting resistance on wraps when using a solvent inkjet printer.	8548G, 8549L, 1920DR
<b>IJ180C</b>	3M™ Controltac™ Graphic Film with Comply™ Adhesive IJ180C	■	■	■	■	■	■	■	■	■	■	■	The classic vehicle wrap film with the original 3M™ Comply™ Adhesive technology.	1920DR, 8548G, 8549L, 8518, 8519, 8520, 8528, 8530, 8908, 8909, 8915, 9740i
<b>IJ180Cv3</b>	3M™ Controltac™ Graphic Film with Comply™ v3 Adhesive IJ180Cv3	■	■	■	■	■	■	■	■	■	■	■	Industry standard for vehicle and boat graphics providing air release, snap-up, slideability and removeability.	1920DR, 8518, 8519, 8520, 8528, 8530, 8908, 8909, 8915, 9740i
<b>IJ180</b>	3M™ Controltac™ Graphic Film IJ180	■	■	■	■	■	■	■	■	■	■	■	Used for large wall murals providing easy installation and reliable adhesion.	1920DR, 8518, 8519, 8520, 8908, 8909, 8915, 9740i
<b>IJ181</b>	3M™ Controltac™ Graphic Film IJ181	■	■	■	■	■	■	■	■	■	■	■	Designed for use on stainless steel applications.	1920DR, 8518, 8519, 8520, 8908, 8909, 8915, 9740i
<b>IJ170Cv3</b>	3M™ Scotchcal™ Graphic Film with Comply™ v3 Adhesive IJ170Cv3	■	■	■	■	■	■	■	■	■	■	■	Value priced solution with Comply™ Adhesive v3 air release system for vehicle graphics.	1920DR, 8548G, 8549L, 8518, 8519, 8520, 8528, 8530, 8908, 8909, 8915, 9740i
<b>IJ8150</b>	3M™ Scotchcal™ Clear View Graphic Film IJ8150	■	■*	■*	■	■	■	■	■	■	■	■	Optical clarity in a printable, durable film.	8518, 8519, 8520, 8528, 8914, 8915, 1920DR, 9740i
<b>IJ3552C</b>	3M™ Controltac™ Changeable Graphic Film with Comply™ Adhesive IJ3552C	■	■	■	■	■	■	■	■	■	■	■	The ultimate in removability. Use this for short-term vehicle wraps when you still need slideability, repositionability and air release.	1920DR, 8518, 8519, 8520, 8915, 9740i
 <b>8170-P40</b>  <b>8170-P50</b>	3M™ Scotchcal™ Perforated Window Graphic Film 8170-P40 and 8170-P50	■	■	■	■	■	■	■	■	■	■	■	Great conformability and durability on vehicle and building windows. Only cast window films on the market. 8170-P50 has 50% perforation and 8170-P40 has 40% perforation.	8518, 8914
<b>IJ8624</b>	3M™ Scotchcal™ Graphic Film for Textured Surfaces IJ8624	■	■	■	■	■	■	■	■	■	■	■	Designed for use on textured surfaces like brick, industrial stucco and cinderblock when inkjet solvent printing.	8524
<b>IJ3630-20</b>	3M™ Scotchcal™ Translucent Graphic Film IJ3630-20	■	■	■	■	■	■	■	■	■	■	■	Create vibrant backlit graphics with this durable translucent film.	1920DR, 3619, 3620, 8518, 8519, 8520, 3658G, 3660M, 8915, 9740i
 <b>IJ3730</b>	3M™ Envision™ Translucent Film IJ3730-50 and IJ3730-60	■	■	■	■	■	■	■	■	■	■	■	Translucent film optimized for use with LEDs. Maximizes light transmission for brighter graphics in illuminated signs.	1920DR, 3619, 3620, 3658G, 3660M, 8518, 8519, 8520, 8915, 9740i
<b>IJ3650-10</b>	3M™ Scotchcal™ Graphic Film IJ3650-10	■	■	■	■	■	■	■	■	■	■	■	Reliable permanent cast film for long-term signs and graphics.	1920DR, 3619, 3620, 3658G, 3660M, 8518, 8519, 8520, 8915, 9740i
<b>IJ3650-114</b>	3M™ Scotchcal™ Graphic Film IJ3650-114	■	■	■	■	■	■	■	■	■	■	■	Reverse image on this clear film for second surface graphics.	1920DR, 3619, 3620, 3658G, 3660M, 8518, 8519, 8520, 8915, 9740i
<b>IJ160C</b>	3M™ Controltac™ Graphic Film with Comply™ Adhesive IJ160C	■	■	■	■	■	■	■	■	■	■	■	Great for short-term vehicle graphics that demand slideability, repositionability and bubble-free installation.	1920DR, 8518, 8519, 8520, 8528, 8530, 8915, 9740i
<b>IJ160</b>	3M™ Controltac™ Graphic Film IJ160	■	■	■	■	■	■	■	■	■	■	■	Great for flat application graphics that require slideability.	1920DR, 8518, 8519, 8520, 8528, 8530, 8915, 9740i
 <b>3545C</b>	3M™ Controltac™ Removable Graphic Film with Comply™ Adhesive 3545C	■	■	■	■	■	■	■	■	■	■	■	Environmentally friendly polyolefin film with no polyvinylchloride or monomeric plasticizers in its construction and made with less solvent in manufacturing when compared to traditional solvent-based adhesive products.	1920DR, 8518, 8519, 8520, 8908, 8909, 8915
<b>IJ3555</b>	3M™ Scotchcal™ Changeable Graphic Film IJ3555	■	■	■	■	■	■	■	■	■	■	■	The ultimate in removability. Use this film for short-term promotional graphics.	1920DR, 8518, 8519, 8520, 8530, 8915, 9740i
<b>IJ162-10</b>	3M™ Controltac™ Graphic Film IJ162-10	■	■	■	■	■	■	■	■	■	■	■	Create eye-catching floor graphics with this reliable and safe floor graphic product.	3645, 3648
<b>Panagraphics III</b>	3M™ Panagraphics™ III Wide Width Flexible Substrate	■	■	■	■	■	■	■	■	■	■	■	Wide width substrate for many types of signs.	3619, 3620, 3658G, 3660M, 8518, 8519, 8520
 <b>FS-1</b> 	3M™ Envision™ Flexible Substrate FS-1	■	■	■	■	■	■	■	■	■	■	■	The flexible substrate optimized for use with LEDs.	3619, 3620, 3658G, 3660M, 8518, 8520

\* Film IJ8150 is only recommended for use on windows for this application.



3M products are designed with our printing partners in mind.

# Reflective Media

Number	Product	APPLICATIONS											DESCRIPTION	Recommended Graphic Protection			
		Fleet (commercial trailer, truck, tractor) and Vehicle Graphics	Vehicle Wraps	Watercraft	Transit (bus, passenger train)	Label (warning, informational)	Signage – Backlit	Signage – Backlit and Thermoformed	Signage – Non-Backlit	Awning	Banner	Smooth Walls			Textured Walls and Surfaces	Windows or Glass	Floor
IJ680CR	3M™ Scotchlite™ Removable Reflective Graphic Film with Comply™ Adhesive IJ680CR	■			■	■			■							Leading reflective film with slideability, air release and removability for easier, faster, bubble-free installations and removal.	1920DR, 8518, 8519, 9740i
IJ680	3M™ Scotchlite™ Reflective Graphic Film IJ680	■			■	■			■						Industry standard reflective film features slideability and increases graphic impressions by offering 24/7 visibility.		
IJ5100R	3M™ Scotchlite™ Reflective Graphic Film IJ5100R	■			■	■			■						Removable reflective graphic film is ideally suited for cut letters, decals, vehicle markings and non-regulated signs.		
IJ5100	3M™ Scotchlite™ Reflective Graphic Film IJ5100	■			■	■			■						Permanent, engineer grade reflective film designed for excellent cutting and weeding.		
IJ5000	3M™ Scotchlite™ Reflective Graphic Film IJ5000	■			■				■						Perfect reflective film choice for short-term messages.		

# Overlaminates for Protection of Inkjet Printed Media

 8549L 	3M™ Envision™ Luster Wrap Overlaminates 8549L	■	■	■	■				■			■	■	■	Goes beyond being just non-PVC, with a breakthrough boost in performance. Outperforms overlaminates 8519, 8524 and 8528.
 8548G	3M™ Envision™ Gloss Wrap Overlaminates 8548G	■	■	■	■				■			■	■	■	Goes beyond being just non-PVC, with a breakthrough boost in performance. Outperforms overlaminates 8518, 8524 and 8528.
3658G	3M™ Scotchcal™ Gloss Overlaminates 3658G							■	■	■	■				High protection from UV fading, dirt, easy to clean; thermoformable on plastic substrates; use on translucent films 3630 and 3730; and digital or screen printed Envision FS-1 and Panagraphics III substrates.
3660M	3M™ Scotchcal™ Matte Overlaminates 3660M							■	■	■	■				Matte version of 3658G.
8528	3M™ Scotchcal™ Gloss Overlaminates 8528	■	■	■	■				■						A highly durable overlaminates. Lasting protection from UV light and acid dew.
8518	3M™ Scotchcal™ Gloss Overlaminates 8518	■	■	■	■	■	■	■	■	■	■	■	■	■	Offers high gloss in a highly conformable overlaminates. Ideal for vehicle wraps to achieve the wet paint look.
8519	3M™ Scotchcal™ Luster Overlaminates 8519	■	■	■	■	■	■	■	■	■	■	■	■	■	Industry standard for a flexible, conformable cast overlaminates.
8520	3M™ Scotchcal™ Matte Overlaminates 8520	■	■	■	■	■	■	■	■	■	■	■	■	■	Matte finish is perfect for indoor use or to provide a unique look to vehicle wraps.
8524	3M™ Scotchcal™ Luster Overlaminates 8524												■		Designed to protect graphics made with film IJ8624 for textured surfaces.
8914	3M™ Scotchcal™ Optically Clear Overlaminates 8914	■	■	■										■	Use on window graphics made with film 8170-P40, 8170-P50, IJ8150 where optical clarity is required.
8915	3M™ Scotchcal™ Ultra-Matte Overlaminates 8915		■	■			■	■				■			Provides the ultimate matte finish.
 8908	3M™ Scotchcal™ Luster Overlaminates 8908	■			■				■			■	■		Environmentally friendly polyolefin film with no polyvinylchloride or monomeric plasticizers in its construction and made with less solvent in manufacturing when compared to traditional solvent-based adhesive products. Luster finish.
 8909	3M™ Scotchcal™ Matte Overlaminates 8909	■			■				■			■	■		Environmentally friendly polyolefin film with no polyvinylchloride or monomeric plasticizers in its construction and made with less solvent in manufacturing when compared to traditional solvent-based adhesive products. Matte finish.
3645	3M™ Scotchcal™ Luster Overlaminates 3645													■	Slip-resistant overlaminates designed specifically for floor graphics but used for table-top graphics as well.
3619	3M™ Scotchcal™ Luster Overlaminates 3619							■	■	■					Luster finish overlaminates for digitally imaged backlit sign faces.
3620	3M™ Scotchcal™ Matte Overlaminates 3620							■	■	■					Matte finish overlaminates for digitally imaged backlit sign faces.

For complete product details and warranted applications, go to [3mgraphics.com/TechInfo](http://3mgraphics.com/TechInfo)

# High Performance Products — Film Characteristics

## Inkjet Media

Number	IJ Media (IJ = forward wound, unnotched core)	DURABILITY AND WARRANTIES			APPLICATION SURFACES								FILM CHARACTERISTICS						
		Expected Performance Life, Unprinted (Years) <sup>†</sup>	3M™ MCS™ Warranty	Performance Guarantee	Flat	Flat with Rivets	Corrugated	Simple Curves	Compound Curves	Deep Channels and Concave Surfaces	Flexible Substrates	Textured Wall and Surfaces	FACE CHARACTERISTICS			FILM OPACITY			
												Film Material	Cast or Non-Cast	Film Thickness (mils)	Face Finish (Gloss, Luster, Matte)	Opaque	Translucent	Transparent	Perforated
 <b>SV480Cv3</b> 	3M™ Envision™ Print Wrap Film SV480Cv3	11	■	■	■	■	■	■	■	■	■	High Performance non-PVC	High Performance non-PVC	2	L	■			
 <b>LX480Cv3</b>	3M™ Envision™ Print Wrap Film LX480Cv3	11	■	■	■	■	■	■	■	■	■	High Performance non-PVC	High Performance non-PVC	2	L	■			
<b>IJ380Cv3</b>	3M™ Controltac™ Wrap Film with Comply™ v3 Adhesive IJ380Cv3	10	■	■	■	■	■	■	■	■	■	Vinyl	Cast	2	L	■			
<b>IJ180C</b>	3M™ Controltac™ Graphic Film with Comply™ Adhesive IJ180C	10	■	■	■	■	■	■	■	■	■	Vinyl	Cast	2	L	■			
<b>IJ180Cv3</b>	3M™ Controltac™ Graphic Film with Comply™ v3 Adhesive IJ180Cv3	10	■	■	■	■	■	■	■	■	■	Vinyl	Cast	2	L	■			
<b>IJ180</b>	3M™ Controltac™ Graphic Film IJ180	10	■	■	■	■	■	■	■	■	■	Vinyl	Cast	2	L	■			
<b>IJ181</b>	3M™ Controltac™ Graphic Film IJ181	10	■	■	■	■	■	■	■	■	■	Vinyl	Cast	2	L	■			
<b>IJ170Cv3</b>	3M™ Scotchcal™ Graphic Film with Comply™ v3 Adhesive IJ170Cv3	10	■	■	■	■	■	■	■	■	■	Vinyl	Cast	2	L	■			
<b>IJ8150</b>	3M™ Scotchcal™ Clear View Graphic Film IJ8150	7	■	■	■	■	■	■	■	■	■	Vinyl	Cast	2	G			■	
<b>IJ3552C</b>	3M™ Controltac™ Changeable Graphic Film with Comply™ Adhesive IJ3552C	8	■	■	■	■	■	■	■	■	■	Vinyl	Cast	2	L	■			
<b>8170-P40</b> <b>8170-P50</b> 	3M™ Scotchcal™ Perforated Window Graphic Film 8170-P40 and 8170-P50	3	■	■	■	■	■	■	■	■	■	Vinyl	Cast	4	G	■			■
<b>IJ8624</b>	3M™ Scotchcal™ Graphic Film for Textured Surfaces IJ8624	7	■	■	■	■	■	■	■	■	■	Vinyl	Cast	2	L	■			
<b>IJ3630-20</b>	3M™ Scotchcal™ Translucent Graphic Film IJ3630-20	7	■	■	■	■	■	■	■	■	■	Vinyl	Cast	2	M		■		
 <b>IJ3730-50</b>	3M™ Envision™ Translucent Film IJ3730-50	7	■	■	■	■	■	■	■	■	■	Vinyl	Cast	2	M		■		
 <b>IJ3730-60</b>	3M™ Envision™ Translucent Film IJ3730-60	7	■	■	■	■	■	■	■	■	■	Vinyl	Cast	2	M		■		
<b>IJ3650-10</b>	3M™ Scotchcal™ Graphic Film IJ3650-10	10	■	■	■	■	■	■	■	■	■	Vinyl	Cast	2	L	■			
<b>IJ3650-114</b>	3M™ Scotchcal™ Graphic Film IJ3650-114	8	■	■	■	■	■	■	■	■	■	Vinyl	Cast	2	L			■	
<b>IJ160C</b>	3M™ Controltac™ Graphic Film with Comply™ Adhesive IJ160C	7	■	■	■	■	■	■	■	■	■	Vinyl	Non-Cast	4	M	■			
<b>IJ160</b>	3M™ Controltac™ Graphic Film IJ160	7	■	■	■	■	■	■	■	■	■	Vinyl	Non-Cast	4	M	■			
 <b>3545C</b>	3M™ Controltac™ Removable Graphic Film with Comply™ Adhesive 3545C	3	■	■	■	■	■	■	■	■	■	Polyolefin	Non-Cast	4	M	■			
<b>IJ3555</b>	3M™ Scotchcal™ Changeable Graphic Film IJ3555	2	■	■	■	■	■	■	■	■	■	Vinyl	Non-Cast	4	M	■			
<b>IJ162-10</b>	3M™ Controltac™ Graphic Film IJ162-10	1	■	■	■	■	■	■	■	■	■	Vinyl	Non-Cast	4	M	■			
<b>Panagraphics III</b>	3M™ Panagraphics™ III Wide Width Flexible Substrate	6	■	■	■	■	■	■	■	■	■	Vinyl	—	20	L		■		
 <b>FS-1</b> 	3M™ Envision™ Flexible Substrate FS-1	6	■	■	■	■	■	■	■	■	■	Vinyl	—	20	L		■		

† Maximum expected outdoor durability of unprinted films. For actual warranties of specific film, ink and overlamine combinations, refer to the warranty matrices in the appropriate base film 3M Product Bulletin.



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ADHESIVE CHARACTERISTICS									IMAGING METHOD	CUTTING METHOD	LINER	CORE	AVAILABILITY					
COLOR	FEATURES					REMOVABILITY	Inkjet – Solvent/ecoSolvent	Inkjet – UV					Inkjet – Latex	Inkjet – Aqueous	Electronic Cut	Kiss Cut & Die Cut	Hand Cut	Polyethylene-coated Paper
Gray					■	■	■	■	■	■	■	■	■	■	■	3, 6	48, 54	25/50/100/150/200
Gray					■	■	■	■	■	■	■	■	■	■	■	3, 6	48, 54	25/50/100/150/200
Gray					■	■	■	■	■	■	■	■	■	■	■	3	54	25/50
Gray				■		■	■	■	■	■	■	■	■	■	■	3, 6	30, 36, 48, 54, 60	25/50/100/150/200
Gray				■		■	■	■	■	■	■	■	■	■	■	3, 6	30, 36, 48, 54, 60	25/50/100/150/200
Gray		■				■	■	■	■	■	■	■	■	■	■	3, 6	30, 36, 48, 54, 60	25/50/100/150/200
Gray		■				■	■	■	■	■	■	■	■	■	■	3, 6	48	25/50/100/150/200
Gray			■			■	■	■	■	■	■*	■	■	■	■	3, 6	54, 60	25/50/100/150/200
Clear	■					■	■	■	■	■	■*	■	■	■	■	3	54, 60	25/50
Gray				■		■	■	■	■	■	■	■	■	■	■	3, 6	48, 54, 60	50/100/150/200
Clear	■					■	■	■	■	■	■	■	■	■	■	3, 6	36, 53.5	10/25/50
Gray	■					■	■	■	■	■	■	■	■	■	■	3, 6	30 54	50/100/150/200 25/50/100/200
Clear	■					■	■	■	■	■	■	■	■	■	■	3, 6	48, 54, 60	50/100/150/200
Clear	■					■	■	■	■	■	■	■	■	■	■	3, 6	54	50/100/150/200
Clear	■					■	■	■	■	■	■	■	■	■	■	3, 6	54	50/100/150/200
Gray	■					■	■	■	■	■	■	■	■	■	■	3, 6	30, 48, 54, 60	25/50/100/150/200
Clear	■					■	■	■	■	■	■	■	■	■	■	3, 6	48, 54, 60	50
Gray				■		■	■	■	■	■	■	■	■	■	■	3, 6	30, 48, 54, 60	50/100/150/200
Gray		■				■	■	■	■	■	■	■	■	■	■	3, 6	30, 48, 54, 60	50/100/150/200
Gray				■		■	■	■	■	■	■*	■	■	■	■	3, 6	48, 54	50/100
Gray	■					■	■	■	■	■	■	■	■	■	■	3, 6	30, 54, 60	50/100/150/200
Gray		■				■	■	■	■	■	■	■	■	■	■	3, 6	48, 54, 60	25/50/100/150/200
—						■	■	■	■	■	■	■	■	■	■	3	59, 79, 98, 102, 126, 150, 165	164 ft.
—						■	■	■	■	■	■	■	■	■	■	3	79, 98, 102, 126, 150, 165	164 ft.

\* Not for prespaced graphics

For complete product details and warranted applications, go to [3mgraphics.com/TechInfo](http://3mgraphics.com/TechInfo)

# High Performance Products — Film Characteristics

## Reflective Media

Number	Product	DURABILITY AND WARRANTIES			APPLICATION SURFACES							FILM CHARACTERISTICS					
		Expected Performance Life, Unprinted (Years)†	3M™ MCS™ Warranty	Performance Guarantee	Flat	Flat with Rivets	Corrugated	Simple Curves	Compound Curves	Deep Channels and Concave Surfaces	Flexible Substrates	Textured Wall and Surfaces	FILM CONSTRUCTION			VISUAL PROPERTIES	
												Film Material	Cast or Non-Cast	Film Thickness (mils)	Face Finish (Gloss, Luster, Matte)	Retro-Reflective	Transparent
IJ680CR	3M™ Scotchlite™ Removable Reflective Graphic Film with Comply™ Adhesive IJ680CR	9	■	■	■	■	■	■				Vinyl	N/A	7	L	■	
IJ680	3M™ Scotchlite™ Reflective Graphic Film IJ680	9	■	■	■	■	■					Vinyl	N/A	7	L	■	
IJ5100R	3M™ Scotchlite™ Reflective Graphic Film IJ5100R	7	■	■	■	■	■					Vinyl	N/A	7	L	■	
IJ5100	3M™ Scotchlite™ Reflective Graphic Film IJ5100	7	■	■	■	■	■					Vinyl	N/A	7	L	■	
IJ5000	3M™ Scotchlite™ Reflective Graphic Film IJ5000	1.5	■		■	■	■					Vinyl	N/A	6	L	■	

## Overlaminates for Protection of Inkjet Printed Media

 <b>8549L</b> 	3M™ Envision™ Luster Wrap Overlaminate 8549L	9	■	■	■	■	■	■	■	■	■	High Performance non-PVC	High Performance non-PVC	2	L		■
	3M™ Envision™ Gloss Wrap Overlaminate 8548G	9	■	■	■	■	■	■	■	■	■	High Performance non-PVC	High Performance non-PVC	2	G		■
	3M™ Scotchcal™ Gloss Overlaminate 8528	9	■	■	■	■	■	■				Vinyl	Cast	1	G		■
	3M™ Scotchcal™ Gloss Overlaminate 8518	8	■	■	■	■	■	■				Vinyl	Cast	2	G		■
	3M™ Scotchcal™ Luster Overlaminate 8519	8	■	■	■	■	■	■		■		Vinyl	Cast	2	L		■
	3M™ Scotchcal™ Matte Overlaminate 8520	8	■	■	■	■	■	■		■		Vinyl	Cast	2	M		■
	3M™ Scotchcal™ Luster Overlaminate 8524	7*			■		■			■		Plastic	N/A	2	L		■
	3M™ Scotchcal™ Optically Clear Overlaminate 8914	8	■	■	■		■					Vinyl	Cast	2	G		■
	3M™ Scotchcal™ Ultra-Matte Overlaminate 8915	8	■	■	■	■	■	■				Vinyl	Cast	2	M		■
	3M™ Scotchcal™ Luster Overlaminate 8908	1	■	■	■	■	■					Polyolefin	Non-Cast	2.5	L		■
	3M™ Scotchcal™ Matte Overlaminate 8909	1	■	■	■	■	■					Polyolefin	Non-Cast	2.5	M		■
	3M™ Scotchcal™ Luster Overlaminate 3645	1	■	■	■	■	■					Vinyl	Cast	8	L		■
	3M™ Scotchcal™ Luster Overlaminate 3619	6	■		■					■		Vinyl	Cast	2	L		■
	3M™ Scotchcal™ Matte Overlaminate 3620	6	■		■					■		Vinyl	Cast	2	M		■
	3M™ Scotchcal™ Gloss Overlaminate 3658G	9	■		■					■		Vinyl	Cast	2	G		■
	3M™ Scotchcal™ Matte Overlaminate 3660M	9	■		■					■		Vinyl	Cast	2	M		■

\* When used on a textured surface, expected life guidelines remain greater than two years indoors and up to six months outdoors. Graphics can perform much longer in drier, temperate climates.

† Maximum expected outdoor durability of unprinted films. For actual warranties of specific film, ink and overlaminate combinations, refer to the warranty matrices or the appropriate base film 3M Product Bulletin.

3M products are designed with our printing partners in mind.

ADHESIVE CHARACTERISTICS						INK COMPATIBILITY				CUTTING METHOD				LINER			CORE	AVAILABILITY	
COLOR	FEATURES			REMOV-ABILITY															
Adhesive Color	Pressure-Sensitive	Pressure-Activated	Pressure-Activated with Air Release Channels	Permanent	Removable	Inkjet – Solvent/ecoSolvent	Inkjet – UV	Inkjet – Latex	Inkjet – Aqueous	Electronic Cut	Kiss Cut	Die Cut	Hand Cut	Kraft Paper	Polyethylene-coated Paper Layflat	Polyester Layflat	Core Sizes (in inches)	Roll Widths (in inches)	Roll Lengths (in yards unless otherwise specified)
Clear			■		■	■	■	■		■	■	■	■		■		3, 6	36, 48	50/100 Non-standard lengths available
Clear		■		■		■	■	■		■	■	■	■		■		3, 6	36, 48	50/100 Non-standard lengths available
Clear	■				■	■	■	■		■	■	■	■		■		3	48	10/50 Non-standard lengths available
Clear	■			■		■	■	■		■	■	■	■		■		3	48	10/50 Non-standard lengths available
Clear	■			■		■	■	■		■	■	■	■		■		3	48	50 Non-standard lengths available

Clear	■			■		■	■	■		■	■	■	■		■		3	54	25/50/100
Clear	■			■		■	■	■		■	■	■	■		■		3	54	25/50/100
Clear	■			■		■	■	■		■	■	■	■		■		3	48, 54	25/50/100
Clear	■			■		■	■	■		■	■	■	■	■			3	54	25/50
Clear	■			■		■	■	■	■	■	■	■	■	■	■		3	36, 48.5, 54, 60	25 /50/100 Non-standard lengths available
Clear	■			■		■	■	■	■	■	■	■	■	■	■		3	36, 48.5, 54, 60	25/50/100 Non-standard lengths available
Clear	■			■		■		■		■	■	■	■		■		3	30 54	50 25/50
Optically Clear	■			■		■	■	■		■	■	■	■		■		3	48, 54	10/50 Non-standard lengths available
Clear	■			■		■	■	■		■	■	■	■	■			3	49, 54, 60	50 Non-standard lengths available
Clear	■			■		■	■	■		■	■	■	■		■		3	54	50/100 Non-standard lengths available
Clear	■			■		■	■	■		■	■	■	■		■		3	49, 54	50/100 Non-standard lengths available
Clear	■			■		■	■	■		■	■	■	■		■		3	36, 48, 54	50 Non-standard lengths available
Clear	■			■		■	■	■	■	■	■	■	■		■		3	48, 54, 60	50 Non-standard lengths available
Clear	■			■		■	■	■	■	■	■	■	■		■		3	48, 54, 60	50 Non-standard lengths available
Clear	■			■		■	■	■	■	■	■	■	■		■		3	48, 54, 60	50 Non-standard lengths available
Clear	■			■		■	■	■		■	■	■	■		■		3	48, 54, 60	50 Non-standard lengths available

For complete product details and warranted applications, go to [3mgraphics.com/TechInfo](http://3mgraphics.com/TechInfo)

# Solid Color Films — No Printing or Overlaminates Needed

## ElectroCut Film

Number	Product	APPLICATIONS								ADVANTAGES & COMMON USES
		Fleet (commercial trailer, truck, tractor)	Transit (bus, passenger train)	Railroad	Label (warning, informational)	Signage - Non-backlit	Cut Letters/Shapes	Window Graphics	OEM Graphics	
7725	3M™ Scotchcal™ ElectroCut™ Graphic Film Series 7725	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2 mil dimensionally stable films with permanent adhesive, designed for electronically-controlled friction-fed or flat-bed cutters. Synthetic layflat liner eliminates curl in humid conditions and liner splitting when wet. Cuts and weeds down to 1/4". Up to 8 year expected performance life. Backed by the 3M™ MCS™ Warranty.
7125	3M™ Scotchcal™ ElectroCut™ Graphic Film Series 7125	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2 mil dimensionally stable films with permanent adhesive, designed for electronically-controlled friction-fed or flat-bed cutters. Paper release liner helps improve speed and quality of cutting and weeding. Cuts and weeds down to 3/8". Up to 8 year expected performance life. Backed by the 3M™ MCS™ Warranty.
50	3M™ Scotchcal™ Graphic Film Series 50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4 mil durable films that offer reliable, affordable 3M solutions. Removable adhesive allows de-identification for up to 3 years with no adhesive residue. Allows reuse of substrates. Excellent cutting and weeding down to 3/8" with an expected performance life of 5 years.



## High Performance Fleet Film

180C	3M™ Controltac™ Graphic Film with Comply™ Adhesive 180C	<input type="checkbox"/>	2 mil cast film. Repositionable, pressure-activated, pigmented adhesive with air release. Great for fleet graphics, emblems, striping and bus graphics. Up to 10 year expected performance life. Backed by the 3M™ MCS™ Warranty.							
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### Remember

3M Application Tapes help you get the job done and they are an important component for the 3M™ MCS™ Warranty.

## Wrap Film

3M™ Wrap Film	Texture/Finish	Film Properties	Roll Width	Warranty	Advantages & Common Uses
Series 1080-BR	Brushed metal	3.5 to 5 mil Dual Cast	60"	3M™ MCS™ Warranty	Ready to use right out of the box—no printing or overlaminate required. Features slideable and repositionable pressure-activated adhesive with non-visible air release channels. Removable.
Series 1080-CF	Carbon fiber				
Series 1080-SF	Straight fiber				
Series 1080-G	Gloss				
Series 1080-M	Matte				
Series 1080-S	Satin				



Order samples and see the full line of colors and finishes at [3Mgraphics.com/1080](http://3Mgraphics.com/1080).

For complete product details and warranted applications, go to [3mgraphics.com/TechInfo](http://3mgraphics.com/TechInfo)

## Intermediate Products

# Everyday Films, Value Priced

The 3M line-up of intermediate films is all about providing great image quality and consistency at the right price.

## Customer Favorites:

### Film 40C **Versatility** for multiple applications

3M™ Controltac™ Print Film 40C features great printability, ease of installation with Controltac™ repositionability, air release channels, and good removability. Use for floor graphics, general signage and POP signs, partial vehicle graphics, and smooth walls. This multi-purpose film helps you:

- Reduce film inventory
- Get greater print consistency
- Reduce film waste in material reloading
- Save set up and maximize machine time
- Quick, time-saving application with slideability, air release and snap-up



**30 Series**  
General Sign & Flat Transit

**40 Series**  
Simple Curve & Transit Wrap

**60 Series**  
Window & Backlit

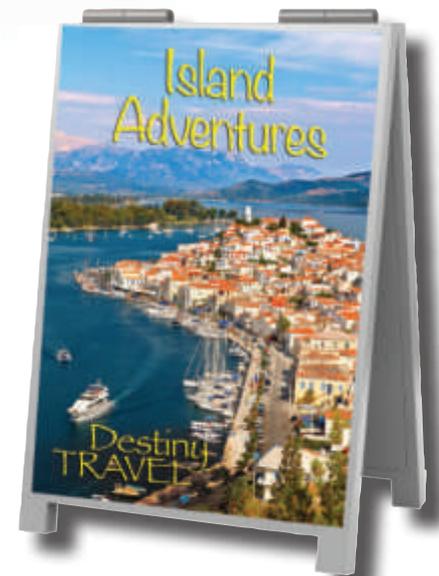
**Other  
Film Options**

**Overlaminates**



### Film IJ35C **Value** in every sq. ft.

Your customer wants fast turnaround, a low price and a great image. You want a film that you can trust to provide the print quality that reflects your business values. When removability isn't a concern, 3M™ Scotchcal™ Graphic Film IJ35C, with air release channels for virtually bubble-free applications, is the solution.



# Intermediate Products — Everyday Films, Value Priced

The films to grab for general sign, window, floor, bus wrap or partial vehicle wrap applications.



	Number	Product	Description	Applications								Application Feature	Expected Performance Life*	
				Fleet and Vehicle	Floor	Label	Signage — Backlit	Signage — Non-Backlit	Smooth Walls	Transit	Vehicle Wraps			Window or Glass
<b>30 Series</b> General Sign & Flat Transit	IJ35-10, IJ35-20	3M™ Scotchcal™ Graphic Film IJ35-10 and IJ35-20	Excellent imageability, permanent adhesive, attractive price. Available in gloss and matte finish.			■		■	■				Flat & Simple Curves	5 yr
	IJ35C-10, IJ35C-20	3M™ Scotchcal™ Graphic Film with Comply™ Adhesive IJ35C-10 and IJ35C-20	Excellent imageability, air release technology, permanent adhesive, attractive price. Available in gloss and matte finish.			■		■	■				Flat & Simple Curves	5 yr
	IJ36-20	3M™ Transit Ad Graphic Film IJ36-20	Excellent imageability, removes easily without heat, leaving little or no adhesive residue. Matte finish.	■				■		■			Flat & Simple Curves	1 yr
	IJ39-20	3M™ Scotchcal™ High Tack Graphic Film IJ39-20	Perfect for hard to stick surfaces including low-surface energy plastics like polyethylene and polypropylene used for motocross bikes and powder-coated paints. Matte finish.	■		■		■					Flat & Simple Curves	5 yr
<b>40 Series</b> Simple Curve & Transit Wrap	40C-10R, 40C-20R	3M™ Controltac™ Print Film 40C-10R and 40C-20R	Controltac™ technology for slideability with air release and easy removal with heat. Ideal for partial vehicle wraps, POP, flat vehicle and indoor short-term floor applications. Available in gloss and matte finish.	■	■	■		■	■		■	■	Flat & Simple Curves, Interior Floors	7 yr (Flat & Simple Curves) 3-12 mo (Floor)
	IJ46-20	3M™ Transit Wrap Graphic Film IJ46-20	Excellent imageability, removes easily without heat, leaving little or no residue. Optimized for bus wraps. Matte finish.	■				■	■	■			Flat & Simple Curves	1 yr
<b>60 Series</b> Window & Backlit	IJ61	3M™ Changeable Window Graphic Film IJ61	Clear product designed for short-term window applications. Low-tack adhesive makes for easy removal of this budget-conscious film.					■				■	Flat & Simple Curves	1 yr
	IJ63-20	3M™ Scotchcal™ Changeable Translucent Graphic Film IJ63	Excellent imageability. Removes easily without heat, leaving little or no adhesive residue. Ideal for short-term backlit and window applications. Matte finish.				■	■				■	Flat & Simple Curves	1 yr
	IJ67	3M™ Scotchcal™ Perforated Window Film IJ67	This 60/40 perforation pattern offers excellent imageability in building, retail and bus applications. Removable for up to 6 months. Replaces 3M films IJ65 and IJ66.	■						■		■	Flat & Simple Curves	1 yr
<b>Other Film Options</b>	IJ162	3M™ Controltac™ Graphic Film IJ162	Excellent imageability, slideable and repositionable, easy removal with heat. Great for indoor floor graphics.			■							Interior Floor	1 yr
	3545C	3M™ Controltac™ Removable Graphic Film with Comply™ Adhesive 3545C	Environmentally friendly polyolefin film with no polyvinylchloride or monomeric plasticizers in its construction and made with less solvent in manufacturing when compared to traditional solvent-based adhesive products.	■		■		■	■	■		■	Flat & Simple Curves, Flat with Rivets	3 yr
<b>Overlaminates</b>	8508	3M™ Scotchcal™ Gloss Overlaminates 8508	Provides graphic protection when applied over most 3M Intermediate Products.				■	■	■	■	■	■	Flat & Simple Curves	4 yr
	8509	3M™ Scotchcal™ Luster Overlaminates 8509	Provides graphic protection for multiple short term applications including floors.		■	■	■	■	■	■		■	Flat & Simple Curves	4 yr
	8510M	3M™ Scotchcal™ Matte Overlaminates 8510M	Provides graphic protection when applied over most 3M Intermediate Products.			■	■	■	■	■		■	Flat & Simple Curves	4 yr
	8512G	3M™ Scotchcal™ Gloss Overlaminates 8512G	Provides abrasion resistance when applied over most 3M Intermediate Products and compliments Film IJ39 in low-surface energy applications.			■		■					Flat & Simple Curves	1 yr
	8908, 8909	3M™ Scotchcal™ Luster Overlaminates 8908 and Matte Overlaminates 8909	Environmentally preferred polyolefin film with no polyvinyl chloride or monomeric plasticizers in its construction.			■		■	■	■		■	Flat & Simple Curves	1 yr

\* Maximum expected outdoor performance life of unprocessed media. Adding a more durable overlaminates may not increase the expected performance life of the graphic construction.



Face Film Characteristics				Adhesive Characteristics		Ink Compatibility**	Liner	Optional Graphic Protection	Core Sizes (in inches)	Availability	
Film Material	Film Thickness (mils)	Face Finish (Gloss, Matte, Luster)	Film Opacity	Adhesive Color	Adhesive Features (permanent unless otherwise specified)					Roll Widths (in inches unless otherwise specified)	Roll Lengths (in yards unless otherwise specified)
Non-Cast Vinyl	3.2	-10 = G -20 = M	Opaque	Gray with hiding power	Pressure-Sensitive	Screen Print, Inkjet – Solvent/ecoSolvent, UV, Latex	Layflat Polycoated Paper	8508, 8509, 8510M, 8518, 8519, 8520	3, 6	30 54, 60.5 60.5	50 (3" core) 50/100/200 (3" and 6" core) 2,300
Non-Cast Vinyl	3.2	-10 = G -20 = M	Opaque	Gray with hiding power	Pressure-Sensitive with Air Release Channels	Screen Print, Inkjet – Solvent/ecoSolvent, UV, Latex	Layflat Polycoated Paper	8508, 8509, 8510M, 8518, 8519, 8520	3, 6	30 54, 60.5	50/100/(3" core) 50/100/200 (3" and 6" core)
Non-Cast Vinyl	3.4	M	Opaque	Gray with hiding power	Pressure-Sensitive, Changeable	Screen Print, Inkjet – Solvent/ecoSolvent, UV, Latex	Layflat Polycoated Paper	8508, 8509, 8510M, 8518, 8519, 8520	3, 6	54 54 61.5 61.5	50/100 (3" core) 100/200 (6" core) 50/100 (3" core) 100/200 (6" core)
Non-Cast Vinyl	3.5	M	Opaque	Clear	Pressure-Sensitive, High Tack	Screen Print, Inkjet – Solvent/ecoSolvent, UV, Latex	Layflat Polycoated Paper	8508, 8509, 8510M, 8512, 8518, 8519, 8520	3	54	50
Non-Cast Vinyl	3	-10R = G -20R = M	Opaque	Gray with hiding power	Pressure-Activated with Air Release Channels, Removable	Screen Print, Inkjet – Solvent/ecoSolvent, UV, Latex	Layflat Polycoated Paper	8508, 8509, 8510M, 8518, 8519, 8520	3, 6	30 54, 60 54, 60	50/100/(3" core) 50/100/(3" core) 100/200 (6" core)
Non-Cast Vinyl	4	M	Opaque	Gray with hiding power	Pressure-Sensitive, Changeable	Screen Print, Inkjet – Solvent/ecoSolvent, UV, Latex	Layflat Polycoated Paper	8508, 8509, 8510M, 8518, 8519, 8520	3, 6	54, 60 54, 60	50/100/(3" core) 100/200 (6" core)
Non-Cast Vinyl	3	G	Transparent	Clear	Pressure-Sensitive, Changeable	Screen Print, Inkjet – Solvent/ecoSolvent, UV, Latex	Layflat Polycoated Paper	8508, 8509, 8510M, 8518, 8519, 8520	3	54	50
Non-Cast Vinyl	3.2	M	Translucent	Clear	Pressure-Sensitive, Changeable	Screen Print, Inkjet – Solvent/ecoSolvent, UV, Latex	Layflat Polycoated Paper	8508, 8509, 8510M, 8518, 8519, 8520	3, 6	54	50/100 (3" core) 100/200 (6" core)
Non-Cast Vinyl	5.9	M	Opaque	Clear	Pressure-Sensitive, Removable	Screen Print, Inkjet – Solvent/ecoSolvent, UV, Latex	Polycoated paper with continuous paper backing layer	8518, 8914	3	54 27, 54	50 10/25/50
Non-Cast Vinyl	4	M	Opaque	Gray	Pressure-Activated, Removable	Screen Print, Inkjet – Solvent/ecoSolvent, UV, Latex	Layflat Polycoated Paper	3645, 8509	3, 6	48 54, 60	50 (3" core) 50 (3" core) 100/200 (6" core)
Non-Cast Polyolefin	4	M	Opaque	Gray	Pressure-Activated with Air Release Channels, Removable	Screen Print, Inkjet – Solvent/ecoSolvent, UV	Layflat Polycoated Paper	1920DR, 8518, 8519, 8520, 8908, 8909, 8510M, 8915	3, 6	48 54	50 (3" core) 50/100 (3" core) 100 (6" core)
Cast Vinyl	2.3	G	Transparent	Clear	Pressure-Sensitive Permanent	Inkjet – Solvent/ecoSolvent, UV, Latex	Kraft Paper	N/A	3	30, 54, 61	50/100
Non-Cast Vinyl	3	L	Transparent	Clear	Pressure-Sensitive Permanent	Inkjet – Solvent/ecoSolvent, UV, Latex	Kraft Paper	N/A	3	30, 54, 61	50/100
Non-Cast Vinyl	3.5	M	Transparent	Clear	Pressure-Sensitive Permanent	Inkjet – Solvent/ecoSolvent, UV, Latex	Kraft Paper	N/A	3	30, 54, 61	50/100
Non-Cast Vinyl	12	G	Transparent	Clear	Pressure-Sensitive Permanent	Inkjet – Solvent/ecoSolvent, UV, Latex	Kraft Paper	N/A	3	54	25/50
Non-Cast Polyolefin	2.5	8908 = L 8909 = M	Transparent	Clear	Pressure-Sensitive	Inkjet – Solvent/ecoSolvent, UV	Kraft Paper	N/A	3	54	50/100

\*\* ecoSolvent applies to inkjet printing only. Whether screen print or inkjet, be sure to test 3M Intermediate Products on your own equipment and inks prior to using as conditions vary by location.  
† Offerings available through FDC.

For complete product details and warranted applications, go to [3mgraphics.com/TechInfo](http://3mgraphics.com/TechInfo)

# Clear Coats

Number	Product	APPLICATION METHOD		CLEAR COAT CHARACTERISTICS				AVAILABILITY (GALLONS)	EXPECTED PERFORMANCE LIFE†	COMMON APPLICATIONS*					
		Liquid Laminator	Screen Press	Aqueous	Solvent	UV-Curable	Gloss Level			Inkjet-Solvent	Inkjet-UV	Inkjet-Latex	Inkjet-Aqueous	Screen Print-Solvent	Screen Print-UV
1920DR	3M™ Screen Print Gloss Clear 1920DR		■		■		Gloss	1	5	■		■	■	■	
8530	3M™ Piezo Inkjet Protective Clear 8530	■		■			Luster	5	3	■					
9740i	3M™ Screen Print UV Gloss Clear 9740i		■			■	Gloss	1 and 5	8	■	■			■	■

\*Varies based on specific base film and ink combinations. Refer to 3M Product Bulletins for product-specific information.

† Expected Performance Life is not a warranted period of time. The Warranty Periods for recommended graphic constructions are provided in the warranty matrices or the applicable base film 3M Product Bulletin.

# Solvent Inks

Number	Product	PRINTER PLATFORM	DESCRIPTION	COMMON APPLICATION SURFACES					
				Flat	Flat with Rivets	Corrugated	Simple & Moderate Curves	Compound Curves	Flexible Substrates
1500v2	3M™ Piezo Inkjet Ink Series 1500v2	EFI™ VUTEK® 150, 2360/3360, 3300/5300, 3000/5000 Printers	Solvent-based, pigmented, weather-resistant, excellent color retention. Available in standard CMYK colors plus Light Cyan, Light Magenta, Light Yellow and Light Black.	■	■	■	■	■	■
4400	3M™ Piezo Inkjet Ink Series 4400	HP Scitex XL Jet 1200 and 1500 Printers	Solvent-based, pigmented, weather-resistant, excellent color retention. Available in standard CMYK colors plus Light Cyan, Light Magenta, Light Yellow and Light Black.	■	■	■	■	■	■
4800	3M™ Piezo Inkjet Ink Series 4800	HP Scitex TJ8300 Printer	Solvent-based, pigmented, weather-resistant, excellent color retention. Available in standard CMYK colors plus Light Cyan and Light Magenta.	■	■	■	■	■	■
GX	SIIT GX 3M Ink * Series	Seiko I Infotech ColorPainter™ H-74s, H-104s, W-54s, W-64s, H2-74s, H2-104s Printers	Solvent-based, pigmented, weather-resistant, excellent color retention. Available in standard CMYK colors plus Light Cyan, Light Magenta, Gray and Light Gray.	■	■	■	■	■	■
SX	SIIT SX 3M Ink * Series	Color Painter™ M-64	Solvent-based, pigmented, weather-resistant, excellent color retention. Available in standard CMYK colors plus Light Cyan, Light Magenta, Gray and Light Gray.	■	■	■	■	■	■

\*ONLY available through printer manufacturer. Contact Seiko Instruments USA at 1-800-264-1272.

# Latex Inks

HP 881	HP 881 Latex Ink, a 3M™ MCS™ Warranty Component*	HP Latex 3000 Printer	Latex-based, vibrant, flexible, six-color ink sets. Durable and weather resistant when used with compatible 3M overlaminates.	■	■	■	■	■	■
HP 831	HP 831 Latex Inks, a 3M™ MCS™ Warranty component*	HP Latex 360 Printer	Latex-based, vibrant, flexible, six-color ink sets. Durable and weather resistant when used with compatible 3M overlaminates.	■	■	■	■	■	■
LX610	HP Latex Inks, a 3M™ MCS™ Warranty component*	HP Designjet L65500, Scitex LX600, LX800, Latex 820 and 850, LX820 and LX850 Printers	Latex-based, pigmented, weather-resistant with overlaminate. Excellent color vibrancy. Available in CMYK colors plus Light Cyan and Light Magenta.	■	■	■	■	■	■
792	HP Latex Inks, a 3M™ MCS™ Warranty component*	HP Designjet L26500, L26100 and L28500, Latex 210, 260 and 280 Printers	Latex-based, pigmented, weather-resistant with overlaminate. Excellent color vibrancy. Available in CMYK colors plus Light Cyan and Light Magenta.	■	■	■	■	■	■

\*ONLY available by contacting HP at 1-866-229-7313.

# UV Inks

GSLXr	EFI™ VUTEK® GSLXr 3M™ SuperFlex UV Ink	EFI™ VUTEK® GS3250LXr Printer, GS5500LXr Pro Printer	UV LED-cured, weather-resistant, excellent color retention, super flexible and conformable. Available in standard CMYK plus Light Cyan, and Light Magenta for both printers., Light Black, Light Yellow also available for GS5500LXr Pro Printer.	■	■	■	■	■	■
GSLX	EFI™ VUTEK® GSLX 3M™ SuperFlex UV Ink	EFI™ VUTEK® GS2000LX Printer, GS3250LX Printer	UV LED-cured, weather-resistant, excellent color retention, flexible and conformable. Available in standard CMYK colors plus Light Cyan, Light Magenta, Light Yellow and Light Black.	■	■	■	■	■	■
Gsr	EFI™ VUTEK® Gsr 3M™ Premium UV Ink*	EFI™ VUTEK® GS5000r and GS3250r Printers	UV-cured, weather-resistant, excellent color retention, flexible and conformable. Available in standard CMYK colors plus Light Cyan, Light Magenta, Light Yellow, Light Black and White.	■	■	■	■	■	■
GS	EFI™ VUTEK® GS 3M™ Premium UV Ink*	EFI™ VUTEK® GS2000, GS3200 and GS3250 Printers	UV-cured, weather-resistant, excellent color retention, flexible and conformable. Available in standard CMYK colors plus Light Cyan, Light Magenta, Light Yellow and Light Black.	■	■	■	■	■	■
R3225	EFI™ R3225 3M™ UV ink*	EFI™ R3225 Printer	UV LED-cured, weather-resistant, excellent color retention, flexible and conformable. Available in standard CMYK.	■	■	■	■	■	■
2200UV	3M™ Piezo Inkjet Ink Series 2200UV*	EFI™ VUTEK® PV200 Printer	UV-cured, weather-resistant, excellent color retention, flexible and conformable. Available in standard CMYK colors plus Light Cyan, Light Magenta and White.	■	■	■	■	■	■
2800UV	3M™ Piezo Inkjet Ink Series 2800UV*	EFI™ VUTEK® QS Printers	UV-cured, weather-resistant, excellent color retention, flexible and conformable. Available in standard CMYK colors plus Light Cyan, Light Magenta and White.	■	■	■	■	■	■
2700UV	3M™ Piezo Inkjet Ink Series 2700UV	Durst Rho 160R and 351R Printers	UV-cured, weather-resistant, excellent color retention, flexible and conformable. Available in standard CMYK colors plus White.	■	■	■	■	■	■
LUS-200	Mimaki UV Ink LUS-200	Mimaki UJV500-160 Printers	UV LED-cured, weather-resistant, excellent color retention, flexible and conformable. Available in standard CMYK. A 3M™ MCS™ Warranty component (Manufactured by 3M)	■	■	■	■	■	■
LF200	Mimaki LF200 UV Ink*	Mimaki UJV-160, JFX-1631 and JFX-1615R Printers	UV LED-cured, weather-resistant, excellent color retention, flexible and conformable. Available in standard CMYK. Manufactured by 3M.	■	■	■	■	■	■

\*ONLY available through printer manufacturer. Contact EFI VUTEK at 1-877-EFI-INKS and Mimaki USA at 1-888-530-4021.

# Graphic Application Tools

At 3M, we are continuously looking for ways to improve the large-format graphics industry. You can count on 3M to develop tools and materials to help you achieve the best possible results for your customers. These graphic installation tools are designed for comfort and assist the installer in applying large-format graphics easier and faster.

## 3M™ Hand Applicator PA-1

Inexpensive, reusable squeegee-type applicator is flexible yet durable. This tool is the perfect solution for applying film or premask.



## 3M™ Low Friction Sleeve SA-1

Reusable paper sleeve slips over the PA-1 applicators to protect the substrate from being marked or scratched.



## 3M™ Power Grip Applicator for 3M™ Comply™ Adhesive Films CPA-1

Designed only for films with the Comply™ Adhesive feature. The applicator makes it easy to cover large areas with a uniform distribution of pressure. The felt-wrapped edge disperses air evenly for a virtually bubble-free application, and the rounded grip is more comfortable for the installer.

## 3M™ Rivet Brush Applicator RBA-1

Graphics are easier to install over rivets using this traditional applicator tool.



## 3M™ Power Grip Rivet Brush Applicator RBA-3

Burnish all films over rivets with ease. The larger handle grip is more comfortable and encourages full arm movement. Burnish film over rivets faster with the stiffer bristles.



## 3M™ Air Release Tool 391x

Puncture film that has already been applied to a substrate to remove entrapped air bubbles.

## 3M™ Tape Primer 94

Used to promote adhesion of 3M films to surfaces such as many plastics and paints. Recommended for use especially when conforming film to deep channels.



## 3M™ Power Grip Multi-Pin Air Release Tool MPP-1

Features a uniquely designed grip. With multiple pins, only a single motion is needed per rivet, saving time during installation on all films.



## 3M™ Power Grip Magic Pad Rivet Applicator CMP-1

Designed exclusively for 3M™ Controltac™ Graphic Films with Comply™ Adhesive. The 3M magic pad rivet applicator, with its large foam pad, makes it easy to conform heated film around rivets. The larger handle grip is designed for comfort.



## 3M™ Edge Sealing Tape 8914

Used to improve the resistance to environmental damage and enhance the durability of the graphics. Protects film edges and seams.



## 3M™ Vehicle Channel Applicator Tool VCAT-2

Custom designed durable soft foam roller for vehicle channels.



## 3M™ Roller L (large)

Custom designed durable firm roller for vehicle channels.



## 3M™ Rapid Roller Applicator CPA-2

Designed exclusively for 3M™ Controltac™ Graphic Films with Comply™ Adhesive. The 3M rapid roller applicator makes it easy to apply film. This tool has a rounded rubber grip that is more comfortable and encourages full arm movement.



## 3M™ Roller S (small)

Custom designed durable firm roller used as finishing tool in vehicle channels.



## Textured Surface Application Tools for Use with 3M™ Scotchcal™ Graphic Film for Textured Surfaces IJ8624

### 3M™ Textured Surface Applicator TSA-1

Specialized tool used to conform large areas of film onto a textured surface.



### 3M™ Textured Surface Applicator TSA-2

Specialized tool used to conform heated film to mortar joints and inside corners.



### 3M™ Textured Surface Applicator TSA-3

Specialized tool used to conform heated film around cut edges and in corners and mosaic-type applications.



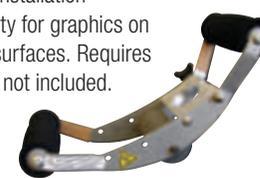
### 3M™ Installation Kit for Textured Surfaces

Combines all of the necessary tools in one kit for installing textured surface graphics using film IJ8624. Includes Stinel® Heat Gun, TSA-1, TSA-2 and TSA-3.



### 3M™ Two-Handled Textured Surface Applicator TSA-4 for Large Areas

Increase installation productivity for graphics on textured surfaces. Requires heat gun, not included.



## Head-to-Head with the Environment

3M's Weathering Resource Center is one of the world's largest accelerated testing facilities. Here, researchers relentlessly punish our products – films, inks, clear coats, overlaminates and finished graphics – with artificial rain, sun and extreme temperatures.

### Peace of Mind

3M goes beyond industry standards by using a battery of tests, including 20 accelerated weathering tests and a series of 3M-proprietary test methods, which are recognized internationally as improved predictors of real-world weathering results.

### Global Exposures

3M also conducts outdoor weathering tests at many sites around the world. This large network of sites lets 3M Commercial Graphics expose products to a range of environmental stresses – from the scorching desert heat of Arizona . . . to the tropical humidity of Thailand . . . to the bitter winter cold of Minnesota.



Extreme  
Proven Performance  
The 3M

## Unparalleled Commitment to Durability Testing



Unlike other manufacturers, 3M tests both finished graphics and individual components

### Did you know?

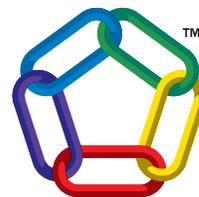
3M is recognized as a world leader in weathering test standards.

- 3M's outdoor test sites include locations that are accepted internationally as benchmarks for evaluating material durability.
- 3M's technologies offer the fastest, most accurate solar simulations in the weathering industry.
- 3M's activities in service-life predictions are unique in the industry.
- Our researchers hold primary authorship of several ASTM and SAE weathering standards.

All this means that you can count on 3M quality and durability even when nature stirs up its very worst. And your customers can count on brand consistency and product performance wherever they do business.

For Specific 3M Inkjet Products with Qualified OEM Inks

### 3M Performance Guarantee



3M<sup>TM</sup> MCS<sup>TM</sup> Warranty

For Finished Graphics Made Using All 3M Graphic Products and Components

### 3M<sup>TM</sup> MCS<sup>TM</sup> Warranty

To learn more about our warranties, go to [3Mgraphics.com/warranties](http://3Mgraphics.com/warranties).



# Conditions Difference



## Peace of Mind

Backed by the strength of three rock solid warranties

We offer you a choice in 3M Graphics Warranties to meet the needs and expectations of your customers, from the simple, solid reliability of our Basic Product Warranty, to the horizon-expanding 3M Performance Guarantee, and the comprehensive, standard-setting 3M™ MCS™ Warranty. That's how confident we are in the performance of our products.

Knowing you can promise consistency from Miami to Madrid to Minsk

Because our products are manufactured to exacting specifications, your customers can take comfort in knowing they'll get the same look and the same quality anywhere they do business.

Having the support you need, always

You can count on our global team of experts to guide you in product selection, design and installation. Training? Of course.



## Installer Programs

Installation Training,  
Testing and Promotion

- Classes and testing available at regional 3M Authorized Facilities and with 3M Authorized Trainers throughout the U.S.
- Upon successful completion of testing, 3M will promote your services.
- Visit [3Mgraphics.com/installationprograms](http://3Mgraphics.com/installationprograms) or call 1-800-328-3908.
- Knifeless Accredited Installer Training & Testing at a 3M Graphics Authorized Training & Testing Facility.  
Contact: [rick@knifelesstechsystems.com](mailto:rick@knifelesstechsystems.com)



## Support

Looking for Technical Information, Color Profiles or the Product Catalog?

Visit our website at [3mgraphics.com/colorprofile](http://3mgraphics.com/colorprofile) or contact your 3M Distributor.

Need to speak to someone?

For General and Technical Information, call 1-800-328-3908. For sample rolls, or to order products in this guide, please visit [3Mgraphics.com/samples](http://3Mgraphics.com/samples) or contact your 3M Distributor.

# 3M Products are Designed with our Printing Partners in Mind



## Glossary of Terms

3M™ Comply™ Adhesive	3M brand name for a characteristic that permits air bubbles to escape through channels in the adhesive as a film is being applied.
3M™ Comply™ v3 Adhesive	3M brand name for a characteristic that permits air bubbles to escape through almost invisible channels in the adhesive as a film is being applied.
3M™ Controltac™ Graphic Film	3M brand name for films with pressure-activated adhesive that is slideable and repositionable until firm pressure bonds it to the substrate.
3M™ Clear Coats	A liquid clear coat that can enhance or change the gloss of a graphic and provide resistance to dirt and harmful UV light.
3M™ Envision™ Films	3M brand name for products that deliver leading-edge technology, best-in-class performance with a sustainability edge.
3M™ Scotchcal™ Graphic Film	3M brand name for films with pressure-sensitive adhesive that bonds upon contact.
3M™ Scotchcal™ Overlaminate	3M brand name for a transparent film that can enhance or change the gloss of a graphic as well as provide resistance to dirt, abrasion and harmful UV light.
3M™ Scotchlite™ Reflective Graphic Film	3M brand name for a retroreflective film that allows a graphic to be clearly seen in low or no ambient light situations when a light source is directed at it from a point near the viewer's location.
Application Tape	Adhesive-backed translucent material used as an aid in applying graphics.
Cast Film	Highest quality vinyl film for the best in image quality, conformability, dimensional stability and durability.
Changeable Film	Can be removed without heat or chemicals and leaves little or no adhesive residue.
Compound Curves	A surface with three-dimensional curves.
Conformable	A feature in some graphic films that allows it to conform around curves and rivets.

IJ	Inkjet printable film prefix that indicates the film is forward wound on an unnotched core.
Perforated	A grid of small holes found in some printable films that allows an image to be seen on one side of a clear substrate, but allows a viewer to see through the film from the other side.
Permanent Adhesive	Adhesive that is not intended to be removable.
Positionable or Repositionable	Light finger pressure may be used to tack the film in place to check for proper positioning and then repositioned if necessary. Firm pressure applied by any means, as well as high application temperature or removing and trying to reapply any liner, eliminates this feature.
Pressure-Activated Adhesive	Slideable, positionable and repositionable until firm pressure is applied with hand, squeegee or other application tool. Incompletely dried solvent in inkjet printed film may reduce the slideability. An applied film cannot be moved to another position.
Pressure-Sensitive Adhesive	Adheres upon contact to the substrate. Does not slide and cannot be repositioned.
Removable Adhesive	Can be removed with heat and/or chemicals with up to 30 percent adhesive residue.
Simple Curves	A surface with a two-dimensional curve.
Slideable (For all 3M Controltac brand films and selected 3M Scotchlite brand films)	Film slides easily across the substrate while positioning for application. Incompletely dried solvent in inkjet printed film may reduce the slideability.

The following is a summary of our warranties that may be available for the products you are using. Always refer to the current 3M Product Bulletin for the base film or substrate you are using to determine which warranty applies to your situation.

The 3M™ MCS™ Warranty protects the whole graphic and each individual graphic component. It covers manufacturing defects, premature failure, excessive dimensional change and loss of adhesion. 3M will replace all 3M materials used and, for certain products and applications, provide labor coverage for removal, remanufacture and reapplication. See the 3M Commercial Graphics Warranty brochure or our website for specific details.

The 3M Performance Guarantee covers product performance of 3M films and compatible 3M overlaminates and clear coats, which are guaranteed to be free of media-induced artifacts and to adhere to recommended substrates as specified in the corresponding 3M Product Bulletins. The 3M Performance Guarantee covers replacement cost of 3M materials only.

This catalog provides an Expected Performance Life period for each 3M film and overlaminate based on using the product without imaging or processing, and applied to flat surfaces in non-abusive environments. This period is a reliable expectation but

does not guarantee graphic performance. Always refer to 3M Product Bulletin for the base film or substrate you are using.

3M does not represent that any printer or printer accessory recommended in 3M literature, except for 3M branded printers and accessories, will meet customer requirements, any federal, state or local regulations or any applicable safety standards. Such determination is the responsibility of the printer owner.

Color profiles are provided on our website as a service to our customers. Profiles can conveniently be searched for via printer, RIP engine or media type.

Every effort has been made to ensure the accuracy and completeness of the information in this brochure. 3M, however, assumes no liability as a result of any errors or inaccuracies that may exist. For the most current information, please visit 3Mgraphics.com or call 1-800-328-3908.

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