



# Performance Guarantee Printer, Ink, Film and Graphic Protection Matrix

## Printers and Inks

## 3M Graphic Films

Click on the Printer or Ink you are using to open the Warranted Durability Table

Manufacturer	Printer	Inks	Notes	3M Graphic Films																		
				IJ180-10	IJ180C-10	IJ180Cv3-10	IJ170Cv3	IJ380Cv3-10	IJ3552C	IJ3630-20	IJ3650-10	IJ3650-114	IJ160-10	IJ160C-10	IJ162-10	IJ3470	3545C	IJ3555	IJ680	IJ680CR	IJ5100R	IJ5100
Epson	<a href="#">Stylus® Pro GS6000</a>	<a href="#">UltraChrome™ GS</a>	■	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Fujifilm	<a href="#">MaxJet</a>	<a href="#">Color+AI</a>		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Agfa	<a href="#">Jeti 3312, 3324</a>	<a href="#">ET</a>		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<a href="#">Jeti 3312, 3324, 5024</a>	<a href="#">HLv2</a>		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
HP	<a href="#">Designjet L25500</a>	<a href="#">HP 789 Latex</a>	■	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<a href="#">Designjet L65500</a>	<a href="#">HP 786 Latex</a>	■	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<a href="#">Designjet 8000, 9000, 10000</a>	<a href="#">HP 790</a>		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<a href="#">Designjet 8000, 9000, 10000</a>	<a href="#">HP 791</a>		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
HP ColorSpan	<a href="#">DisplayMaker® 72s, 98s</a>	<a href="#">HPSC100</a>		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<a href="#">DisplayMaker® 72UV</a>	<a href="#">HPSC200</a>	■ ★	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<a href="#">Designjet H35000/45000</a>	<a href="#">HP 788UV</a>	■ ★	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
HP Scitex	<a href="#">TJ8300</a>	<a href="#">TJ100 Supreme</a>		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<a href="#">XL1200, XL1500</a>	<a href="#">XL200, XL300 Supreme</a>		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<a href="#">TJ8500</a>	<a href="#">TJ200 UV</a>	■ ★	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Mimaki	<a href="#">JV33, CJV30 Series</a>	<a href="#">SS21 Series</a>		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<a href="#">JV3 Series</a>	<a href="#">MS, SS2 Series</a>		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<a href="#">JV3 Series</a>	<a href="#">ES Series</a>	■	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<a href="#">JV5 Series</a>	<a href="#">ES Series</a>	■	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<a href="#">JV5 Series</a>	<a href="#">HS Series</a>		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>TYPICAL WARRANTED DURABILITY OF 3M MEDIA, in years</b>				32	32	32	32	32	2	2	2	2	2	2	1	2	2	2	2	2	2	2
				32 = 3 years most graphics; 2 years watercraft																		

### Graphic Protection Options

Graphic protection is required. The product used may reduce the warranty from numbers shown above. Some inks may not be approved with some options listed. Refer to the base film's Product Bulletin or the warranted durability table for your printer and ink combination before selecting a graphic protection option.

Overlaminates 8518	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Overlaminates 8519	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Overlaminates 8520	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Overlaminates 8915	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Clears 1920DR	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Clears 9720i, 9720UV	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Overlaminates 8580					●																	
Overlaminates 3645													●									

### LIMITATIONS: Always check the film's Product Bulletins for additional details.

Corrugated Surfaces	●	These films, when printed with this ink, are not warranted for use on corrugated surfaces. Other films may not be recommended for corrugations under any circumstances.
Clears 9720i, 9720UV	■	These clears are not compatible with any ink series adjacent to the green cells in the Notes column.
UV Inks	★	Some UV inks can be brittle; stretching, heating and applying to some curves may cause ink cracking.
Film IJ380Cv3	♣	Use film IJ380Cv3 & overlaminates 8580 for autowraps & watercraft only.

**Total Ink Coverage** 270% for most films and printers. Exceptions: 250% for all Reflective Films and Mimaki JV5 Series with HS ink series.

**Limitation of Liability** With the exception of 3M branded products, 3M does not represent that any printer or printer accessory recommended in 3M literature will meet customer requirements, any federal, state or local regulations or any applicable safety standards. Such determination is the responsibility of the printer owner.

**Performance Guarantee** The 3M Performance Guarantee warrants the following for 3M Graphic Films and Graphic Protection: physical defects, manufacturing defects, printing and cutting defects, stated warranted durability, fitness for use, adhesive to specified substrates, and removal for removable/changeable film. This is not a finished graphics warranty. The only remedy is replacement of 3M product used in the construction. See the 3M Graphics Center Warranty Brochure for complete details.



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## Printers and Inks

## 3M Graphic Films

Click on the Printer or Ink you are using to open the Warranted Durability Table

Manufacturer	Printer	Inks	Notes	3M Graphic Films																	
				IJ180-10	IJ180C-10	IJ180Cv3-10	IJ170Cv3	IJ380Cv3-10	IJ3552C	IJ3630-20	IJ3650-10	IJ3650-114	IJ160-10	IJ160C-10	IJ162-10	IJ3470	3545C	IJ3555	IJ680	IJ680CR	IJ5100R
Mutoh	<a href="#">Falcon II Outdoor</a>	<a href="#">Eco-Ultra™ Series</a>	■	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<a href="#">Spitfire, Blizzard</a>	<a href="#">MS Plus</a>	■	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<a href="#">Toucan</a>	<a href="#">Toucan Solvent</a>		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<a href="#">Toucan LT</a>	<a href="#">LT Ink Series</a>		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<a href="#">Toucan LT</a>	<a href="#">Eco-Ultra™ Series</a>	■	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<a href="#">Valuejet 1204,1304,1604,1614</a>	<a href="#">Eco-Ultra™ Series</a>	■	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<a href="#">Valuejet 1608</a>	<a href="#">MUBIO</a>	■	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Oce	<a href="#">CS6060</a>	<a href="#">IJC610</a>		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	<a href="#">CS9050, CS9060, CS9160</a>	<a href="#">IJC930</a>	■	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Roland®	<a href="#">SOLJET Pro II Series</a>	<a href="#">Eco-Sol Max</a>	■	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	<a href="#">SOLJET Pro III Series</a>	<a href="#">Eco-Sol Max</a>	■	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	<a href="#">VersaCAMM® and 3220 Series</a>	<a href="#">Eco-Sol Max</a>	■	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	<a href="#">Advanced Jet AJ-i</a>	<a href="#">EcoXtreme i</a>		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	<a href="#">Advanced Jet</a>	<a href="#">EcoXtreme</a>		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Seiko	<a href="#">ColorPainter™ 64S</a>	<a href="#">EG-Outdoor</a>		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	<a href="#">H74s, H104s</a>	<a href="#">EG-Outdoor-EX</a>		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
EFI™ VUTEK®	<a href="#">QS2000, 3200, 3220</a>	<a href="#">QS Series 2 UV</a>	■ ★	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	<a href="#">QS2200</a>	<a href="#">QS220 UV</a>	■ ★	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	<a href="#">QS3200r, 3250r</a>	<a href="#">QSr UV</a>	■ ★	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	<a href="#">150, X300, X360</a>	<a href="#">UltraVu Series 5</a>		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
<b>TYPICAL WARRANTED DURABILITY OF 3M MEDIA, in years</b>				3/2	3/2	3/2	3/2	3/2	2	2	2	2	2	2	2	2	2	2	2	2	
				3/2 = 3 years most graphics; 2 years watercraft																	

### Graphic Protection Options

Graphic protection is required. The product used may reduce the warranty from numbers shown above. Some inks may not be approved with some options listed. Refer to the base film's Product Bulletin or the warranted durability table for your printer and ink combination before selecting a graphic protection option.

Overlaminates 8518																					●
Overlaminates 8519	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Overlaminates 8520	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Overlaminates 8915	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Clear 1920DR	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Clears 9720i, 9720UV	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Overlaminates 8580	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Overlaminates 3645					●																

### LIMITATIONS: Always check the film's Product Bulletins for additional details.

Corrugated Surfaces	●	These films, when printed with this ink, are not warranted for use on corrugated surfaces. Other films may not be recommended for corrugations under any circumstances.
Film IJ380Cv3	♣	Use film IJ380Cv3 and overlaminates 8580 for autowraps and watercraft only.
Clears 9720i, 9720UV	■	These clears are not compatible with any ink series adjacent to the green cells in the Notes column.
UV Inks	★	Some UV inks can be brittle; stretching, heating and working around some curves may cause ink cracking.
<b>Total Ink Coverage</b>		270% for most films and printers. Exceptions: 250% for all Reflective Films and Mimaki JV5 Series with HS ink series.

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### 3M Graphic Films and Media for Inkjet Printing with a 3M™ MCS™ Warranty

Some Films and Graphic Protection may not be used with your printer and ink. Always refer to the applicable Warranty Matrix for the recommended graphic constructions.

Film/Media	Mils/Weight	Color	Adhesive	Features	Product Bulletin
3M™ Controltac™ Graphic Film IJ160-10, RG160-10, FN160-10	4	White	PA	Slideable, Positionable, Repositionable*; Removable	PIJ160/160C
3M™ Controltac™ Graphic Film IJ160C-10, RG160C-10, FN160C-10	4	White	PA/C	Same as IJ160 plus air release channels	
3M™ Controltac™ Graphic Film IJ162-10, RG162-10, IJ162-114	4	White or Clear	PA	Slideable, Positionable, Repositionable*; Removable	PIJ162
3M™ Scotchcal™ Graphic Film with Comply™ Adhesive IJ170Cv3-10		White	PS/Cv3	Conformable over rivets and corrugations; Non-visible air release channels; Improved air flow; Removable with heat and/or chemicals; Suitable for watercraft. <b>Value-priced premium film!</b>	
3M™ Controltac™ Graphic Film IJ180-10, RG180-10	2	White	PA	Slideable, Positionable, Repositionable*; Conformable over rivets and corrugations; Removable with heat and/or chemicals; Suitable for watercraft	PIJ180/180C
3M™ Controltac™ Graphic Film with Comply™ Adhesive IJ180C-10, RG180C-10, FN180C-10	2	White	PA/C	Same as IJ180 plus air release channels	
3M™ Controltac™ Graphic Film with Comply™ v3 Adhesive IJ180Cv3-10, RG180Cv3-10, FN180Cv3-10	2	White	PA/Cv3	Same as IJ180 plus non-visible air release channels; improved air flow	
3M™ Controltac™ Graphic Film with Comply™ Adhesive IJ380Cv3-10	2	White	PA	Slideable, Positionable, Repositionable*; Non-visible air release channels, excellent air flow; Highly conformable over rivets and corrugations; Removable without heat or chemicals. <b>For vehicle and watercraft wraps only</b>	PIJ380Cv3
3M™ Scotchcal™ Translucent Graphic Film IJ3630-20, RG3630-20, FN3630-20	2	Translucent or white	PSA	Superior layflat characteristics; Permanent	PIJ3630
3M™ Scotchcal™ Graphic Film IJ3650-10, IJ3650-114, RG3650-114, FN3650-114	2	White or Clear	PSA	Permanent	PIJ3650
3M™ Scotchcal™ Graphic Film IJ3470, RG3470	4	White	PSA	Removable	PIJ3470
3M™ Controltac™ Removable Graphic Film with Comply™ Adhesive 3545C, RG3545C	4	White	PA/C	Polyolefin; Slideable, Positionable, Repositionable*; Air release channels; Removable	3545C
3M™ Scotchcal™ Changeable Graphic Film IJ3555, RG3555	4	White	PSA	Low temperature application; Removable without heat/chemicals	PIJ3555
3M™ Scotchlite™ Reflective Graphic Film IJ5000	6	Reflective white	PSA	Removable	5000
3M™ Scotchlite™ Reflective Graphic Film IJ5100R, RG5100R	6	Reflective white	PSA	Removable from approved flat painted substrates	5100R
3M™ Scotchlite™ Reflective Graphic Film IJ5100, RG5100	6	Reflective white	PSA	Permanent	5100
3M™ Scotchlite™ Reflective Graphic Film IJ680-10, RG680-10	7-8	Reflective white	PA	Slideable only**; Conformable over corrugations and rivets; Permanent	PIJ680
3M™ Scotchlite™ Removable Reflective Graphic Film with Comply™ Adhesive IJ680CR-10, RG680CR-10	7-8	Reflective white	PA/C	Slideable only**; Air release channels; Conformable over corrugations and rivets; Removable; Improved Performance!	PIJ680CR
3M™ Scotchcal™ Perforated Window Graphic Film IJ8171, RG8171	4	See through	PSA	40% perforation pattern; Removable	PIJ8171
3M™ Panagraphics™ III Wide Width Flexible Substrate	22 oz/sq yd	Translucent white	None	Flexible sign face; Seamable	P3
Films with an IJ prefix are forward wound on unnotched cores. Films with a RG prefix are reverse wound on a notched core. Films with a FN prefix are forward wound on a notched core.		White film is opaque unless otherwise noted	PSA = Pressure-sensitive adhesive PA = Pressure-activated adhesive PA/C = Pressure-activated with Comply Adhesive PA/Cv3 = Pressure-activated with Comply version 3 Adhesive PS/Cv3 = Pressure-sensitive with Comply version 3 Adhesive		
3M™ Scotchcal™ Luster Overlaminate 3619 and Matte Overlaminate 3920	2	Clear	PSA	Luster or matte, for selected sign graphics	GP-1
3M™ Scotchcal™ Luster Overlaminate 8519 or Matte Overlaminate 8520	2	Clear	PSA	Luster or matte, for most graphics	GP-1
3M™ Scotchcal™ Gloss Overlaminate 8580	1.2	Clear	PSA	Gloss, for vehicle wraps on film IJ380Cv3 only	GP-1
3M™ Scotchcal™ Luster Overlaminate 8908 or Matte Overlaminate 8909	2.5	Clear	PSA	Luster or matte, non-vinyl, short term	GP-1
3M™ Scotchcal™ Optically Clear Overlaminate 8914	2	Clear	PSA	Optically clear gloss, for windows	GP-1
3M™ Scotchcal™ Ultra Matte Overlaminate 8915	2	Clear	PSA	Ultra matte, reduces glare	GP-1
3M™ Scotchcal™ Luster Overlaminate 3645	8	Clear	PSA	Luster, for floor graphics	GP-1
3M™ Scotchcal™ Luster Overlaminate 3648	4	Clear	PSA	Luster, for sidewalk signs	GP-1
3M™ Piezo Ink Jet Protective Clear 8530	n/a	Clear	None	Luster, liquid laminate, short term	GP-1
3M™ Screen Print Dirt Resistant Gloss Clear 1920DR	n/a	Clear	None	Gloss, screen print clear	1900
3M™ Screen Print Gloss Clear 9720UV	n/a	Clear	None	Gloss, UV-cured screen print clear	9700UV
3M™ Screen Print UV Gloss Clear 9720i	n/a	Clear	None	Gloss, UV-cured screen print clear <b>improved!</b>	9720i

3M, Controltac, Comply, Panagraphics, Scotchcal and Scotchlite are trademarks of 3M Company.

**Warranty and Limited Liability.** The following is made in lieu of all other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose: all 3M products are warranted to be free of defects in materials and manufacture at the time of shipment and to meet the specifications stated in the film or media's Product Bulletin. Also see the Graphics Market Center Warranty Brochure, which gives the terms, additional limitations of the warranty, if any, and limitations of liability.

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