



Release O, Effective June 2009 See Bulletin Change Summary at end of Bulletin

ScotchliteTM Removable Reflective Graphic Film with ComplyTM Adhesive

Series 680CR Film 680CR-10

For Screen Printing

For Electrostatic or Screen Printing

Product Description

These are 7-mil, flexible, enclosed lens, removable, retroreflective films that offer great versatility along with slideable, pressure-activated adhesive. Air release channels in the adhesive allow for fast and easy, bubble-free graphic installation. These long-term durable films are designed for commercial vehicle, railroad and bus graphics, sign graphics, and striping on vertical, flat, curved or corrugated surfaces, with or without rivets. Use these films for screen printing or electrostatic printing.

Advantages

- Comply adhesive featuring air release channels
- Up to 9 year durability with up to 7 year 3M™ MCS™ Warranty on many applications
- Removable with heat
- Similar daytime and nighttime appearance that retains most of its reflectivity when wet
- Excellent angularity
- Unprocessed film resists fuel vapors or occasional spills
- Engineer grade film

Recommended Types of Graphics and End Uses

When constructed and used as described in this Bulletin, these types of graphics and end uses may be warranted by the $3M^{\text{TM}}$ MCS Warranty. Please read the entire Bulletin for details.

- Vertical commercial vehicle, railcar and bus graphics
- · Vertical commercial signs and striping
- Vertical indoor and outdoor signage

Limitations of End Uses

3M specifically does not recommend or warrant the following uses, but please contact us to discuss your needs or recommend other products.

Unsuitable End Uses for This Film

- Do not apply this film on:
 - Walls
 - Substrates with compound curves
 - Substrates that do not have a clean, smooth surface or have poor paint-to-substrate adhesion
 - Stainless steel
 - FRP with a Tedlar® coating
 - Flexible substrates
- Graphics made for automotive Original Equipment Manufacturers (OEM); contact 3M Automotive Division at 1-800-328-1684 for alternatives.
- Also see limitations of graphic removal, page 5.

Compatible Products

3M Graphic Materials

This Bulletin provides details about the base film and construction options and warranty. Additional specific information about compatible products can be found in the Product and Instruction Bulletins listed in **3M Related Literature** at the end of this bulletin.

See the Warranty matrix to determine which Compatible Products are approved for your graphic construction.

Screen Printing

- 3M[™] Screen Printing Ink Series 1900
- 3M™ Screen Printing UV Ink Series 9800
- 3M[™] Scotchlite[™] Screen Printing Ink Series 2900

Electrostatic Printing

• Scotchprint® Toner Series 8700/8800

• 3M™ Trident Transfer Paper

Graphic Protection Options

- 3M[™] Screen Printing Gloss Clear 9800CL
- 3M™ Screen Print Gloss Clear 1920DR
- 3M[™] Screen Print UV Gloss Clear 9720i
- 3M[™] Screen Print Gloss Clear 9720UV
- 3M[™] Scotchlite[™] Screen Printing Gloss Clear 4430R
- 3M[™] Scotchcal[™] Luster Overlaminate 8519
- 3M[™] Scotchcal[™] Luster Overlaminate 8908
- 3MTM High Gloss Graffiti Resistant Overlaminate 8912 ES not for use on rivets
- 3M™ Screen Print Clear 8920 ES not for use on corrugations

Other Products

- 3M[™] Prespacing Tape SCPS-55
- 3M[™] Premasking Tape SCPM-3
- 3M[™] Premasking Tape SCPM-44X
- 3M[™] Edge Sealer 3950

Characteristics

These are typical values for unprocessed product; processing may change the values. Contact your 3M representative for a custom specification.

Physical Characteristics

Characteristic	Value							
Material	Vinyl	Vinyl						
Thickness	With adhesive: 7	7 to 8 mils (0.18 to 0	0.20 mm)					
Adhesive type	Pressure-activate	d, slideable, with air	release channels					
Adhesive color	White							
Liner	Polyethylene-coat	ted paper						
Film colors &	At -4° entrance a	angle and 0.2° obser	rvation angle.					
typical retroreflection	Film Number 680CR-10 680CR-14 680CR-64 680CR-71 680CR-75 680CR-76 680CR-77 680CR-81 680CR-81 680CR-85 See page 9 for A	Color Name White Orange Gold Yellow Red Blue Light blue Green Lemon yellow Ruby red Black STM and NFPA stand	Typical Coefficient of Retroreflection 100 20 70 65 20 10 10 20 75 15 30 dards for this film series.					

continued on the next page.

Characteristic	Value
Retroreflection Definition	The typical coefficient of retroreflection defined is measured at a -4° entrance angle and a 0.2° observation angle. It is expressed in candle-power per foot-candle per square foot (candela/lux/square meter) per ASTME 810.
	The entrance angle is formed by a light beam striking the surface at a point and a line that is perpendicular to the surface at the same point.
	An observation angle is formed by the light beam striking the reflective surface and returning to the observer. From 800 feet (249 meters), a motorist normally views a graphic at a 0.2° angle.
Chemical resistance	 Resists mild alkalis, mild acids, and salt Excellent resistance to water (not immersion) Resists occasional fuel spills
Flammability	Call 1-800-328-3908 for information

Application Characteristics

Characteristic	Value
Finished graphic application recommendation	Surface type: Flat, with/without rivets; moderate curves; corrugations Substrate type: Aluminum, FRP, paint Graphic orientation: Vertical only Application temperature: air and substrate 40° to 100°F (4° to 38°C) flat surfaces without rivets 45° to 100°F (7° to 38°C) flat, curved or corrugated surfaces with rivets Application method: Dry
Adhesion 24 hours after application	Aluminum: 4.8 lb/in (0.86 kg/cm) FRP (Fiberglass Reinforced Plywood): 3.7 lb/in (0.7 kg/cm) Painted aluminum panels: 2.6 pounds/inch (0.5 kg/cm)
In use tempera- ture range	-30° to +200°F (-34° to +93°C)

Definitions

U.S. Vertical Exposure



face of graphic The face of the graphic is \pm 10° from vertical.

U.S. Desert Southwest Exposure Any outdoor graphic exposed to solar energy more than half of the daylight hours in Arizona, New Mexico and the desert areas of California, Nevada, Utah and Texas is subject to reduced warranties. A detailed map is available at 3Mgraphics.com under Warranties.

Graphic Types

Indoor Signs

Stationary graphics applied indoors and *not* exposed to the elements.

Outdoor Signs

Stationary graphics applied outdoors and exposed to the elements.

Railroad

Graphics applied on railroad cars but not railroad engines.

OEM

Labels and decorative graphics produced for and used by original equipment

manufacturers.

Fleet Vehicle

Straight trucks, semi-tractors and trailers used in commercial fleets. Excludes air shields.

Standard Vehicle Buses, vans, automobiles, recreational vehicles unless otherwise noted.

Graphic Construction The products used to make a graphic, which may include film and/or flexible substrate, graphic

protection, ink, printer and application tape.

Graphic Protection Overlaminate films or clear coats used to protect the graphic and/or change gloss.

Removable with Heat Film is removable when heat is used within the specified time period and leaves no more than 10%

adhesive residue on flat and simple curves without rivets, and no more than 30% adhesive residue

on rivets.

Warranty Information

Warranty and Limited Remedy

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 or implied warranty arising out of a course of dealing, custom or usage of trade: 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 this Product Bulletin. 3M will replace or refund the price of any 3M materials that do not meet this warranty within the specified time periods. These remedies are exclusive. In no case shall 3M be liable for any direct, indirect, or consequential damages, including any labor or non-3M materials charges.

See the *3M Graphics Market Center Warranty Brochure* at 3Mgraphics.com, which gives the terms, additional limitations of the warranty, if any, and limitations of liability.

Warranty Coverage Overview

Both the warranty coverage and the durability for each graphic is based on the user(s) reading and following all applicable and current 3M Product and Instruction Bulletins. 3M will honor the Warranted Durability stated in the Warranted Durability Table in the base film or substrate Product Bulletin that is current when the film was purchased. Warranted durabilities may be reduced and stipulations may apply for certain constructions and applications, as covered in this Bulletin.

3M™ MCS™ Warranty

Warranted Durability Table for Finished Graphics in a Standard U.S. Vertical Exposure

Finished graphics constructed as shown in the tables below are eligible for the MCS Warranty. For warranties for other exposures, see page 5.

Veh = Fleet, Standard and Recreational Vehicle Graphics

Rail = Railroad Graphics Sign = Indoor and Outdoor Signs

Screen Printing

All Film Colors

Warranted Durability in Years

3M Ink		Series 2900				Series 1900			Series 9800				
SIVI IIIK		line cold	or	4-0	color		line cold	or	line color		or	4-color	
Graphic Protection	Veh	Rail	Sign	Veh	Sign	Veh	Rail	Sign	Veh	Rail	Sign	Veh	Sign
1920DR	7	5	5	5	5	7	7	7	_	_	_	_	_
4430R	7	5	5	5	5	7	5	5	_			_	_
9720i	7	5	5	5	5	7	5	5	7	5	5	5	5
9720UV	7	5	5	5	5	7	5	5	7	5	5	5	5
9800CL	_	_	_	_	_	_	_	_	5	5	5	5	5

Unprinted Film

Warranted Durability Expected Durability

Graphic Protection	Veh	Rail	Sign	
None	8	5	5	
None	9	5	5	

For Unprinted Film only, both a Warranted Durability and Expected Durability is given. The film is covered by the MCS Warranty for the period described, but 3M testing shows that when unprinted, the film can be expected to perform satisfactorily for the extended period given.

Electrostatic Printing

White Film Only

3M Toner	8700				
Graphic Protection	Veh	Sign			
8908	_	1			
8519	5	5			
8912	5	4			
8920	5	4			

Removal Warranty

For Films that Are Removable with Heat and/or Chemicals

Within the stated warranted durability period of each graphic construction in this Bulletin, if this film cannot be removed with heat and/or chemicals, or if more than 30% of the adhesive residue remains on the substrate, 3M will reimburse a reasonable portion of extra removal costs.

Removal Warranty Exceptions

The following exceptions are not covered by the Removal Warranty.

- Substrate damage due to:
 - removing film from a pre-existing graphic
 - removing film that was applied to painted wallboard
 - removing film from paint that is not firmly bonded to the substrate
- No guarantee is made for:
 - ease or speed of removal of any graphic
 - removal from railroad, stainless steel or bare aluminum substrates
 - removal from paint that is improperly cured
 - removal from aged paint or metals, surface oxidation or chalking; user must test, approve and accept liability for such applications
 - removal from horizontally-exposed outdoor applications

Removal Factors

The ease and rate of removal using heat depends on several factors. Also see Instruction Bulletin 6.5.

- Substrate type and condition
- Graphic age and weathering conditions
- Removal is performed when the air and surface temperature is above 60°F (15°C)
- Angle of removal, which should be less than 90 degrees

Fleet Labor Reimbursement

3M will reimburse 100% of the labor costs associated with the removal, remanufacture and reapplication of a *commercial fleet graphic only* to the extent that 3M determines such amount is reasonable and necessary in the circumstances. This labor cost reimbursement will be determined by 3M on a case-by-case basis taking into account the expected amount of labor needed to make such repairs and other considerations.

General Warranty Stipulations

These stipulations apply to graphics covered by the $3M^{TM}$ MCSTM Warranty. Specific provisions of these stipulations are found in the 3M Graphics Market Center Warranty Brochure at 3Mgraphics.com.

Reduced Warranted Durability

For Graphics NOT in a U.S. Vertical Exposure

Use the years indicated in the applicable Warranted Durability Table, starting on page 4, for your graphic construction and these formulas to determine reduced durabilities for the following graphic exposure.

If the Graphic Exposure is:	Use this Percentage of U.S. Vertical Exposure, Warranted Durability	Examples		
Desert Southwest Vertical	70% (0.7)	0.7 x 5 years = 3.5 years		
All other exposures	0	0		

Abrasion and Loss of Gloss

Abrasion damage and loss of gloss are not covered by any 3M warranty. This is considered normal wear and tear.

Application to Glass

3M accepts no liability for glass breakage when using this film for window graphics. See Instruction Bulletin 5.1 for details.

Application Outside the U.S.

Contact the 3M organization for that country.

Graphics Made with Components Not Sold or Recommended by 3M The 3M[™] MCS[™] Warranty does not cover finished graphics made with inks, film, graphic protection and/or application tapes that are not sold or recommended by 3M. The user is solely responsible for the graphic appearance, performance and durability of graphic constructions that include any other products.

Graphic Protection

Any graphic exposed to abrasive conditions (including vehicles), harsh cleaners or chemicals must include graphic protection in order to be warranted. Abrasion damage and gloss loss are not covered.

Rivets

This film will tent when applied over rivets. If the rivets are closely spaced, the film will bridge between rivets. Tented or bridged film may fail prematurely, which is not covered by any 3M warranty.

Factors that Affect Graphic Performance Life

The actual performance life of a graphic is affected by all of the following.

- The combination of graphics materials used
- Ink formulation
- Adequate ink drying or curing
- Selection, condition and preparation of the substrate
- Surface texture
- Application methods
- Angle and direction of sun exposure
- Environmental conditions
- Cleaning or maintenance methods

Screen Printing

Ink formulations and processing conditions can affect ink durability. Refer to the Product and Instruction Bulletins for your ink for limitations and proper usage.

- Ink series 1900 and some colors in ink series 9800 are opaque. Be aware that opaque
 ink can prevent the film from retroreflecting in the screen printed areas. Ink series 2900
 and the transparent colors from ink series 9800 are good choices when retroreflection
 is important in the screen printed areas.
- For graphics subjected to fuel vapors or occasional spills, use screen printing ink series 2900 and clear 4430R.
- Oven dry the last color and the clear when using solvent-based inks on graphics needed for any corrugated application.

Electrostatic Printing

Refer to the 3M Related Literature section for Instruction Bulletins that discuss digital printing methods.

An image is printed on electrostatic paper and transferred with heat and pressure to the film. Graphic protection is required.

Cutting

The following are common cutting methods for this film. See Instruction Bulletin 4.1 for details.

- Cold and hot steel-ruled die cutting
- Hot kiss cutting
- Drum-type electronic cutting
- Flat-bed electronic cutting
- Guillotine
- Hand cut

Design Considerations

- Use a minimum letter height of 1 inch (2.5 cm).
- Use a minimum stroke width of 3/8 inch (1.0 cm).
- Use a minimum radius for a point of 1/16 inch (1.6 mm).
- For uniform color and brightness when making a graphic with multiple pieces of the film together, be sure the pieces are properly color matched. See Instruction Bulletin 2.1 for details. Color-matched film is available by special order. Contact your 3M sales representative.
- Order "roll applicator splices" for roll striping. Butt splices may have a small gap.

Weeding Considerations

- For the best results, weed the film within 24 hours of cutting it.
- Perform weeding carefully. Removing the film from the liner reduces or may eliminate the slideability feature. For this same reason, do not attempt to exchange the liner.
- Refer to Instruction Bulletin 4.1 for more details.

Application Tapes

When to Use Premasking Tape

- As an application aid to increase stiffness, and prevent stretching and damage during application.
- Graphics larger than 4 square feet (0.4 m²).
- Striping greater than 4 inches (10 cm) wide.

When NOT to Use Premasking Tape

- Continuous rolls or striping wider than 12 inches (31 cm).
- Rolls wider than 12 inches (31 cm) that will be slit.

When to Use Prespacing Tape

- Hold cut and weeded letters or graphics in registration after removing the film liner.
- Protect cut graphic parts from scratching or damage during application.
- Use when large amounts of liner are exposed.

How to Select a Tape

Determine whether you want to premask the graphic or prespace cut graphics. Then select the application tape that corresponds to the graphic protection used. See Instruction Bulletin 4.3 for complete details.

Tape NR = not recommended	No Printing	1920DR 4430R	9720i 9720UV 9800CL	8519	8912	8920
Premasking SCPM-3						
Premasking SCPM-44X					NR	
Prespacing SCPS-55						

Handling Prespaced Graphics

For the best results when using prespacing tape SCPS-55, we recommend these practices:

- Store and ship prespaced film lying flat (do not roll it). This allows adhesion to build and minimizes the chance of the prespacing tape popping off of the liner or film.
- Handle the prespaced graphic as little as possible and keep it flat during processing.
- Remove as much liner as possible.



CAUTION

Before using any equipment, always read the manufacturer's instructions.

Application and Installation

Install the film using the dry application method.

Refer to the 3M Related Literature section, located at the end of this bulletin, for a list of the Instruction Bulletins that may be needed to apply or install this film.

Adhesive

This film has a pressure-activated adhesive that allows the film to slide easily on the substrate. Any pressure applied by hand, squeegee or application tool immediately bonds the film to the substrate and the slideability feature is lost. The film cannot be lifted and repositioned without damage.

Substrate Considerations

Some substrates such as under-cured polyurethane paint, fiberglass and some paint systems may continue to outgas for some time. Two-part polyurethane paints and screen print clears may stop curing when the air and surface temperatures are lower than 75°F (24°C). This film shows an ability to minimize bubbles due to outgassing.

This film can be applied over other recommended 3M graphic systems. Graphics printed with clear 1920DR must be weathered for at least one year before applying this film over it. See Instruction Bulletin 5.1 for details.

Finishing

- If needed or recommended, use edge sealer 3950.
- Most graphics made with these films do not require an edge sealer, although certain
 applications may benefit from its use.
- All processed and unprocessed graphics subjected to fuel vapors or occasional fuel spills do require edge sealer.
- Edge sealing in the following applications is not required, but it may help keep the
 edges adhered when subjected to external sources such as abrasion and/or high pressure washing.
 - graphics exposed to severe abrasion or high pressure washing
 - graphics applied to chrome substrates
 - graphics applied to locomotives and rolling railroad stock
 - graphics applied to truck rollup doors

Maintenance and Cleaning

Use a cleaner designed for high-quality painted surfaces. The cleaner must be wet, non-abrasive, without strong solvents, and have a pH value between 3 and 11 (neither strongly acidic nor strongly alkaline.)

Refer to Instruction Bulletin 6.5 for details on pressure cleaning. Exceeding 3M's recommendations will void the warranty whether or not an edge sealer was properly used.

Removal

These films are removable with heat from most substrates within the warranted durability period specified for your construction. See Instruction Bulletin 6.5 for details on how to remove graphics.

Shelf Life, Storage and Shipping

Shelf Life

Total shelf life: 2 years

Up to 2 years unprocessed, OR process within 1 year and apply within 1 year of processing

Storage Conditions

for Unprocessed Film or Unapplied Finished Graphics

- 40° to 100°F (4° to 38°C)
- Out of sunlight
- Clean dry area
- Original container
- Cut sheets must lie flat
- Bring the film to print room temperature before using

Shipping Finished Graphics

Film with prespaced graphics using prespacing tape SCPS-55 applied: Flat only

All other constructions: Flat, or rolled printed side out on 6 inch (15 cm) or larger core. This helps prevent the application tape, if used, from popping off.

See Instruction Bulletin 6.5 for details.

Health and Safety



CAUTION

When handling any chemical products, read the manufacturers' container labels and the Material Safety Data Sheets (MSDS) for important health, safety and environmental information. To obtain MSDS sheets for 3M products go to 3M.com/MSDS, or by mail or in case of an emergency, call 1-800-364-3577 or 1-651-737-6501.

When using any equipment, always follow the manufacturers' instructions for safe operation.

Standards

This information is important for applications that are regulated by ASTM or NFPA standards, for example, traffic control signs, emergency vehicles and certain railroad graphics. The user is solely responsible for determining and complying with all current and applicable local, state and federal regulations regarding the use and application of graphics materials

ASTM D-4956-07: Standard Specification for Retroreflective Sheeting for Traffic Control ASTM D-4956-07 covers flexible, non-exposed glass bead lens and microprismatic retroreflective sheeting designed for use on traffic control signs, delineators, barricades and other devices. For Type 1 sheeting it specifically covers these colors: white, yellow, orange, green, red, blue and brown. As defined in ASTM D-4956-07, film series 680CR are classified as Type I sheeting (section 4.2.1) with a Class 3 adhesive (section 4.3.3). For corresponding colors covered by ASTM D-4956-07, the aforementioned films (except orange) meet the requirements specified in section 6.1.1 (minimum performance requirements for Type I sheeting).

NFPA® 1901: Standard for Automotive Fire Apparatus (2009 Edition) According to NFPA® 1901, section 15.9.3.3 specifies that all retroreflective materials required by section 15.9.3.1 and 15.9.3.2 shall conform to the requirements of ASTM D 4956, Standard Specification for Retroreflective Sheeting for Traffic Control, Section 6.1.1 for Type I sheeting. Section 15.9.3.3.1 specifies that colors not listed in ASTM D-4956 can be used on the front and sides of the fire apparatus as long as the sheeting has a minimum coefficient of retroreflection of 10 when measured with an observation angle of 0.2° and an entrance angle of -4° .

	Red	Ruby Red	Yellow	Lemon Yellow	White	Blue	Light Blue	Green	Gold	Black
Color Number	72	82	71	81	10	75	76	77	64	85
Section 15.9.3.1 (Front & Sides)	•	•	•	•	•	•	•	•	•	•
Section 15.9.3.2 (Chevrons)	•	•	•	•						

3M Related Literature

Before starting any job, be sure you have the most current Product and Instruction Bulletins.

The information in 3M Product and Instruction Bulletins is subject to change. Current Bulletins are available at 3Mgraphics.com. The following applicable Bulletins provide information and processes you need to properly make the graphics described in this Bulletin. Additional Bulletins may be needed as indicated in the 3M Related Literature section of other 3M components you use.

Bulletin types: PB = Product Bulletin; PB-IB = Product & Instruction Bulletin; IB = Instruction Bulletin

Inks

Subject	Туре	Bulletin No.
3M™ Piezo Inkjet Ink Series 1500v2	PB-IB	1500
3M™ Piezo Inkjet Ink Series 4400	PB-IB	4400
3M™ Piezo Inkjet Ink Series 4600	PB-IB	4600
3M™ Piezo Inkjet Ink Series 4800	PB-IB	4800
3M™ Piezo Inkjet Ink Series 6800	PB-IB	6800

Subject	Туре	Bulletin No.
3M™ Piezo Inkjet Ink Series 2200UV	PB-IB	2200UV
3M™ Piezo Inkjet Ink Series 2600UVv2	PB-IB	2600UVv2
3M™ Piezo Inkjet Ink Series 2700UV	PB-IB	2700UV
3M™ Piezo Inkjet Ink Series 2800UV	PB-IB	2800UV
3M™ Piezo Inkjet Ink Series 5400UV	PB-IB	5400UV
3M Graphic Protection Products	PB	GP-1
3M™ Screen Print UV Gloss Clear 9720i	PB-IB	9720i
3M™ Screen Print Gloss Clear 9720UV -Applying screen printing clear 9720UV	PB IB	9700 3.4
3M [™] Screen Printing Ink Series 1900 and Clear 1920DR - Screen printing with ink series 1900- line color	PB IB	1900 3.12
3M™ Scotchlite™ Screen Printing Ink Series 2900 - Screen printing with ink series 2900 - line color - 4-color	PB IB IB	2900 3.18 3.19
3M [™] Screen Printing UV Ink Series 9800 - Screen printing with UV ink series 9800 - line color - 4-color	PB IB IB	9800 3.20 3.21
3M™ Trident Transfer Paper	PB	Trident
Transferring and laminating electrostatically printed images	IB	4.7
3M [™] Screen Print Clear 8920 ES - Screen printing with clear 8920 ES	PB IB	8920 3.15
Cold roll lamination	IB	4.22
Design of graphics	IB	2.1
Scoring and cutting	IB	4.1
Using 3M application tapes; premasking and prespacing for films	IB	4.3
Application, substrate selection, preparation, substrate-specific techniques	IB	5.1
Application, special applications and vehicles	IB	5.4
Application, general procedures for indoor and outdoor dry applications	IB	5.5
Applicator's quick reference guide for vehicle film	IB	5.35
Application: special considerations for complex contours of automobiles, vans and buses and inspection forms	IB	5.36
Storage, handling, maintenance, removal	IB	6.5

Warranty

Screen Printing

Electrostatic Printing

General Instructions

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NFPA is a registered trademark of National Fire Protection Association, Inc; Tedlar is a registered trademark of DuPont Company.

Bulletin Change Summary

Take note of the updated adhesion values on page 3. A clarification about warranted durability vs. expected durability for unprinted film was added. A limitation for the film 680-14 (orange) has been added to the ASTM standard description on page 9.



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3M Graphics Center Warranty Brochure

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