

Scotchcal™ Luster Overlamine 3645 Scotchgard™ Surface Protection Film 2200 3M™ DI-NOC™ Protection Film DPF-100

Product Description

3M™ Scotchcal™ Luster Overlamine 3645 is a durable, luster finish, permanent transparent film intended for roll-to-roll lamination to 3M™ DI-NOC™ prior to interior applications. Pre-laminated 3645 on DI-NOC can be installed in full coverage areas where extra protection from damage is required; for example, in high-traffic, repeated impact areas, such as sections of doors, walls, counter tops, etc.

3M™ Scotchgard™ Surface Protection Film 2200 is a durable, luster finish, permanent transparent film intended for interior applications. 2200 and DPF-100 can be applied on-site to specific areas of installed DI-NOC where extra protection from damage is required in high-traffic, repeated impact areas, such as sections of doors, walls, counter tops, etc.

3M™ DI-NOC™ Protection Film DPF-100 is a durable, flexible, glossy, removable transparent film intended for on-site interior applications.

Product Characteristics

The values in these tables are typical, and are based on test data deemed reliable but are not warranted.

	Characteristic		Value	Application Method
3645	Material	Film, surface finish	Vinyl, luster.	Graphic manufacturer
		Adhesive	Acrylic, permanent	
		Release Liner	Kraft paper.	
	Thickness	Film + Adhesive	8 mils (200 microns) nominal, not including release liner.	
	Roll Size		48 in. x 75 ft. (1220 mm x 23 m)	
	Weight		27 lb. (12.1 kg) (approx.) for a 75 ft. (23 m) roll.	
Scotchgard™ 2200	Material	Film, surface finish	Vinyl, luster.	On-site
		Adhesive	Acrylic, permanent	
		Release Liner	Comply™ + Controltac™ paper liner.	
	Thickness	Film + Adhesive	8 mils (200 microns) nominal, not including release liner.	
	Roll Size		48 in. x 75 ft. (1220 mm x 23 m)	
	Weight		27 lb. (12.1 kg) (approx.) for a 75 ft. (23 m) roll.	
DPF-100	Material	Film, surface finish	Polyurethane, glossy.	On-site
		Adhesive	Acrylic, removable	
		Release Liner	Kraft paper.	
	Thickness	Film + Adhesive	7.5 mils (190 microns) nominal, not including release liner.	
	Roll Size		48 in. x 82 ft. (1220 mm x 25 m)	
	Weight		28 lb. (12.5 kg) (approx.) for a 82 ft. (25 m) roll.	

Application Methods

3M™ Scotchcal™ Luster Overlamine 3645 for roll-to-roll lamination to 3M™ DI-NOC™ films by a graphics manufacturer.

- **3M™ Scotchcal™ Luster Overlamine 3645** can conform around corners
Refer to “Hot Roll Lamination Procedure” in *Instruction Bulletin 4.22 - Lamination for Inkjet Printed Graphics*.

3M™ Scotchgard™ Surface Protection Film 2200 and 3M™ DI-NOC™ Protection Film DPF-100 designed for application to DI-NOC that has already been installed on an application surface according to the DI-NOC Installation Guide.

- **3M™ Scotchgard™ Surface Protection Film 2200** can conform around corners.
- **3M™ DI-NOC™ Protection Film DPF-100** should be applied only to flat or gently curved surfaces (no corners).

Application Considerations

- Examine a sample of DI-NOC after application of Surface Protection Film for acceptance of visual appearance, since DI-NOC surface texture will change.
- DI-NOC patterns with deep embossed surface textures, such as NU or FE series and others, are not recommended for Surface Protection Film application.
- Do not use primer/adhesion promoter on surface of DI-NOC when applying Surface Protection Film.
- Air bubbles may remain visible when Surface Protection Film is applied to darker colored DI-NOC patterns.
- Air bubbles may occur during application of Surface Protection Film at low temperatures.
- DI-NOC may no longer have the same fire rating after application of Surface Protection Film.
- Surface Protection Films applied to DI-NOC are not intended for use on floors. Soap and/or detergent solution on Surface Protection Film 2200 surface will reduce slip resistance/traction.
- Surface Protection Films are not recommended for food contact surfaces.

Application and Removal Guidelines

The values in these tables are typical, and are based on test data deemed reliable but are not warranted. See the 3M™ DI-NOC™ Installation Guide for additional information.

Pre-laminated DI-NOC Application Guidelines (before On-site)

Characteristic	Value
Application Surface Type	Smooth non-porous application surface
Application Location	Interior
Application Temperature	54°F - 100°F (12°C - 38°C) air and application surface
Application Method	Dry application
High Humidity Environments	Products are not recommended for Interior Applications where condensation consistently occurs.
Product Removal	Pre-laminated 3645 to 3M™ DI-NOC™ is permanent
Fire Resistance	When used in Interior Applications as defined by NFPA 101 “Life Safety Code”, Test Method ASTM E84: <ul style="list-style-type: none"> ● 3645 applied directly to an incombustible substrate has a Class A rating. ● 3645 applied to most 3M™ DI-NOC™ has a Class A rating.

On-site Application Guidelines for Surface Protection Films

Characteristic	Value
Application Surface Type	Surface of 3M™ DI-NOC™ patterns that do not have deep texture
Application Location	Interior
Application Temperature	54°F - 100°F (12°C - 38°C) air and application surface
Application Method	Dry application is recommended for both DPF-100 and 2200 films (see the Scotchgard™ Surface Protection Film 2200 Instructions for Use).
High Humidity Environments	Products are not recommended for Interior Applications where condensation consistently occurs.
Product Removal	DPF-100 is removable, 2200 is permanent
Fire Resistance	When used in Interior Applications as defined by NFPA 101 “Life Safety Code”, Test Method ASTM E84: <ul style="list-style-type: none"> • 2200 or DPF-100 applied directly to an incombustible substrate has a Class A rating. • 2200 or DPF-100 applied to most DI-NOC has a Class A rating.

Shelf Life and Storage

Shelf Life

The storage conditions specified in this document must be maintained for full shelf life.

3M™ Scotchcal™ Luster Overlaminat 3645 - apply within 2 years of the date of purchase.

3M™ Scotchgard™ Surface Protection Film 2200 - apply within 1 year of the date of purchase.

3M™ DI-NOC™ Protection Film DPF-100 - apply within 2 years of the date of purchase.

Storage Conditions

- 40°F - 86°F (4°C - 30°C)
- Away from direct sunlight and high humidity
- Clean, dry area
- Original container with end caps, in the plastic sleeve, stored horizontally, a maximum of 6 cartons high
- Bring the Product to room temperature before application

Cleaning and Maintenance

Regular cleaning will help maintain the appearance of the finish. Use mild detergent and water, and a soft cloth or sponge without abrasives. For difficult stains, spot clean with a diluted Isopropyl Alcohol solution and a soft cloth. Avoid using strong solvents or detergents that are either highly alkaline (pH>11) or acidic (pH<3). Do not use ammonia, chlorine, or strong organic-based cleaning products, polishing or cleaning compound, hard-bristle brushes or electric polishing equipment. Use only clean, nick-free tools and wipe gently.

Problem	Solution
Dust and grit	Wipe with a soft, damp cloth.
Soiled (but not gritty)	Use water and a soft cloth
Heavily Soiled	Clean first using a solution of mild liquid detergent and water, then use clear water. Wipe gently with a soft cloth.
Difficult Stains	Spot clean with 70/30 IPA (70% Isopropyl Alcohol/ 30% Water) cleaning solution

Type of Surface Damage	Appearance of Surface Damage	Method to Reduce Visibility
Mar	Dragging an item, such as a colored briefcase, across the film and leaving a deposit of color on the surface.	Rub with a soft cloth and warm soapy water to remove the mar.
Indentation	Pressing into the film surface without breaking the surface, such as pressure from a chair.	Carefully heat the indentation with a heat gun, which allows the film surface to rebound and reduce visibility.
Scratch	Breaking the surface layer of film leaving a slightly jagged whitish mark on the surface, such as by dragging a sharp rivet from a purse.	Rub with a surface restorer such as 3M™ Marine Vinyl Cleaner & Restorer to reduce the visibility of scratches.
Gouge	Breaking through the entire film, such as severe impact from sharp chairs or carts.	Repair by cutting out the damaged film and replacing that piece with the same pattern of film or remove and replace an entire panel of film.

Health and Safety



When handling any chemical products, read the manufacturers' container labels and the Safety Data Sheets (SDS) for important health, safety and environmental information. To obtain SDS sheets for 3M products go to 3M.com/SDS, 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.

Technical Information

Technical information and data, recommendations, and other statements provided by 3M are based on information, tests, or experience which 3M believes to be reliable, but the accuracy or completeness of such information is not guaranteed. Such technical information and data are intended for persons with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. The typical values shown should not be used for the purpose of specification limits. If you have questions about this Product, contact the Technical Service helpline at 1-888-650-3497.

Commercial Solutions

3M Center, Building 220-12E-04
St. Paul, MN 55144

1-888-650-3497
3M.com/AMD

© 3M 2019. All rights reserved.
3M, Scotchcal, Scotchgard, Compoly, Controltac, and DI-NOC are trademarks of 3M. Used under license in Canada.
All other trademarks are property of their respective owners.
Revision C, March 2019 Please recycle.

