

VEHICLE WRAP SPECIALISTS
 COLOUR CHANGE WRAPS
 COMMERCIAL WRAPS
 FULL & PARTIAL WRAPS
 GRAPHIC DESIGN, PRINT & INSTALL



ARLON

DPF 4600GLX/MLX

DPF 4600GLX/MLX is your go-to high performance calendared film providing you with an efficient and versatile solution. DPF 4600GLX/MLX can be used with or without an overlaminate while maintaining the perfect balance of body and conformability. The repositionable light gray adhesive allows for easy installation while ensuring enough opacity for covering existing graphics. The LX (Low Profile) X-Scape Technology® provides installers a bubble-free installation with a smooth, paint-like finish for a multitude of different applications from vehicle decals, to promotional signage, and interior wall. Depend on DPF 4600GLX/MLX to deliver the best results.

DPF 4600GLX / MLX is designed for use on simple to moderate curves for vehicle wraps.

Unique Features:

- ▶ Multi-Purpose Film for a Variety of Applications
- ▶ Low Profile Liner for a Smooth Finish

Applications:

- ▶ General Signage
- ▶ Partial Vehicle Wraps / Decals
- ▶ Window Graphics
- ▶ Real Estate Signage
- ▶ POP / Trade Show Graphics

X-Scape
TECHNOLOGY



Certified for
HP Latex Inks

Performance & Physical Data

Finish:	Gloss, Matte
Durability (Unprinted):	7 Years
Roll Widths:	30** (0,76 m), 54" (1,37 m) 60" (1,52 m)
Roll Lengths:	50 Yards (45,72 m)
Adhesive:	Clean Removing, Repositionable (Light Gray)
Release Liner:	Lay-Flat Polycoated with Low Profile X-Scape Technology®
Ink Compatibility:	Eco-Solvent Solvent UV Latex
Compatible Overlaminate:	Series 3170 Series 3210 Series 3220 Series 3310 Series 3420*

* Use on flat and simple curves only
 ** Only available for gloss

USA: a 200 Boysenberry Lane, Placentia, CA 92870, USA
 EUROPE: a North Sea Building, Gevers Deynootweg 93, 4th Floor, 2586BK Den Haag, The Netherlands

p 800 232 7161 / 714 985 6300 f 800 329 2756
 p +31 0 70 354 4311 f +31 0 70 355 7721

arlon.com

April 2019



▶ DPF 4600GLX/MLX Vinyl Film

High Performance Digital Film with X-Scape Technology®

DPF 4600GLX/MLX is constructed of a 3.2-mil (80 micron) white gloss or matte high performance calendered film with a tinted, clean removing, repositionable adhesive system. The repositionable light gray adhesive allows for easy installation while ensuring enough opacity for covering up existing graphics or dark substrates. The Low Profile X-Scape Technology provides installers the benefit of a bubble-free installation combined with a smooth printed surface that doesn't show the pattern through the print. DPF 4600GLX/MLX works great for your multipurpose signage needs. DPF 4600GLX/MLX is rated for outdoor durability up to 7 years (unprinted). Printed durability is dependent on the ink system used.

APPLICATIONS & FEATURES

- Printable on Eco-Solvent, Solvent, Latex and UV printers
- Ideal for interior & exterior intermediate signage
- Great for partial vehicle wraps with flat & simple curves and short term interior floor graphics^
- Recommended overlaminates: Series 3220, Series 3210, Series 3170, Series 3410* or Series 3420

^When used with Series 3220 Gloss or Series 3420 Gloss

* Only available in Europe and the Middle East



PERFORMANCE & PHYSICAL DATA

PROPERTY	TEST METHODS	TYPICAL VALUE	
SURFACE FINISH	Gloss Meter 60° Reflection	80 to 90 Gloss Units (Gloss) 10 to 15 Gloss Units (Matte)	
THICKNESS	Micrometer, Federal Bench Type	3.2-mil (80 micron)	
TENSILE STRENGTH	Tensile Tester 2-in (51 mm) jaw separation; crosshead speed of 12 in/min. (5.1 mm/s); web direction	≥ 14 lb/in	≥ 2.5 kg/cm
ELONGATION	Instron Tensile Tester as above	≥ 190%	
SHELF LIFE (IN BOX)	Ideal Storage Temperature 70°F (21°C) and 50% relative humidity	1 year from factory shipment	
APPLICATION TEMPERATURE RANGE	On clean, dry substrate	60°F to 80°F	15°C to 27°C
SERVICE TEMPERATURE RANGE	On clean, dry substrate	-20°F to 150°F	-29°C to 65°C
DIMENSIONAL STABILITY	158°F (70°C), 48 hour	15-mil	0.38 mm
PEEL ADHESION	PSTC-1, 15 min, 70°F (21°C)	≥ 3.9 lb/in	≥ 0.70 kg/cm
LINER RELEASE	TLMI Release at 90°, 300 in/min (760 cm/min)	70 g/2 in	14 g/cm

NOTE: Recommended post-heat surface temperature of vinyl installed: 200°F to 220°F (95°C to 105°C). Post-heat must be applied gradually and approximately 5" from the film. Standard Terms & Conditions Apply

USA

- a** 200 Boysenberry Lane, Placentia, CA 92870
- p** 800 232 7161 / +1 714 985 6300
- f** +1 714 985 6305

EUROPE

- a** Dr. Lelykade 22B, 2583CM Den Haag, The Netherlands
- p** +31 70 354 4311
- f** +31 70 355 7721

CHINA

- a** No. 1989 Xinchang Road, Weifang, Shandong, 262400
- p** +86 0536 6226568

USE & APPLICATION

DPF 4600GLX/MLX will resist weathering best when applied to vertical or upper outboard angles. Horizontal angles, such as hood and auto roof surfaces, will deteriorate more quickly than vertical. This is due to increased exposure to sun and moisture, as well as high deposition of dirt and atmospheric contaminants. Actual horizontal weathering will be dependent on maintenance, location and elemental exposure. Use heat and/or chemical when removing image from vehicle (see Installer Handbook for details).

APPLICATION	RECOMMENDED	NOT RECOMMENDED	OVERLAMINATE(S)
VEHICLE/FLEET DECALS	X		SERIES 3220, SERIES 3210, SERIES 3170, SERIES 3410 OR SERIES 3420
FLAT VEHICLE SIDES	X		SERIES 3220, SERIES 3210, SERIES 3170, SERIES 3410 OR SERIES 3420
SIMPLE CURVES	X		SERIES 3220, SERIES 3210, SERIES 3170, SERIES 3410
DEEP CHANNELS		X*	
COMPLEX CURVES		X	
RIVETS		X ^D	
MULTI-PURPOSE FLAT APPLICATIONS	X		SERIES 3220, SERIES 3210, SERIES 3170, SERIES 3410 OR SERIES 3420
MEDIUM-TERM STATIC SIGNAGE	X		SERIES 3220, SERIES 3210, SERIES 3170, SERIES 3410 OR SERIES 3420
SHORT-TERM INTERIOR FLOOR GRAPHICS	X		SERIES 3220 GLOSS OR SERIES 3420 GLOSS

^aWhen wrapping curves and channels with DPF 4600GLX/MLX, it is recommended the product be draped and not stretched into areas with channels.
^bCan be applied on low profile rivets. Please note that rivets vary in shape and size so tenting may appear.

GLOSSARY OF APPLICATION TERMS

- Simple Curves:** Defined as a slight stretch to the film in one direction (example: the side vehicle).
- Complex Curves:** Defined as extensive stretching (with or without heat) of material in multiple directions (example: bumpers).
- Deep Channel:** Channels in excess of a quarter inch in depth that require a “bridge and stretch” method for application.

FLOOR APPLICATIONS

DPF 4600GLX/MLX is recommended for short-term interior floor applications when used with either Series 3220 Gloss or Series 3420 Gloss, which are approved under UL 410 regulation for slip-resistance for Floor Graphic Materials. To determine the best product for application Arlon always recommends testing prior to using the above products on the actual surface as product performance can vary greatly depending on the surface type, level of foot traffic, elemental exposure, carpet type, and floor condition. Due to these variables, Arlon only warrants the material(s) for standard manufacturers defect and is unable to offer a warranty for the performance or clean removability of these products for floor graphic applications.

Please refer to Arlon’s [Installation Guide](#) for detailed techniques and best practices.

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TERMS & CONDITIONS

The following is made in lieu of all warranties expressed or implied:

All orders and purchases made in connection with this document are governed and limited by Arlon's Standard Terms and Conditions, which are incorporated in full by this reference and are available at <http://www.arlon.com/terms-and-conditions> or in hardcopy by request.

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INSTALLATION GUIDE

Interior Floor Graphics

*Technical Services
October 2019*



Interior Floor Graphics

INSTALLATION GUIDE

Tools Needed

APPLICATION TOOLS	USES
Squeegee with Felt Tip	For applying media without damaging the graphic
Felt Block Squeegee	For applying graphics on carpet
GENERAL TOOLS	USES
Masking Tape	Positioning the graphic
9mm Snap-off blades	Trimming excess material
Microfiber Towels	For cleaning the substrate
Wrap Knife	To cut the release liner
Measuring Tape	Positioning and alignment
Rigid Scraper	To scrape off 3D contaminants

Indoor Floor Application Surfaces

- Waxed vinyl flooring
- Sealed concrete
- Marble
- Ceramic tile
- Sealed wood
- Terrazzo
- Low-pile commercial-grade carpet



Interior Floor Graphics

INSTALLATION GUIDE

PREPARATION

RECOMMENDED PRACTICES	PURPOSE
<p>1. Laminate the graphic with Arlon Series 3220 Gloss or Series 3420 Gloss</p>	<p>Series 3220G and Series 3420G are UL 410 approved for slip resistance as floor graphics material.</p>
<p>2. Graphics should be designed with rounded corners</p>	<p>Rounded corners will help prevent lifting of the graphic due to scuffing. Sharp corners are more susceptible to lifting, thus creating a hazard.</p>
<p>3. Inspect the condition of the flooring/carpet</p>	<p>Identify the construction of the flooring material and check to see if there is a floor finish. Ensure that the floor finish is bonded well to the floor surface. If the floor finish is not well-bonded to the surface, the graphic may prematurely lift or the floor finish will be damaged upon graphic removal.</p>
<p>4. Check for media compatibility to the floor surface This is to ensure that the media will adhere well to the floor surface prior to beginning the job.</p>	<p>Perform a media compatibility test by applying a sample of the media, roughly 12"x 12" (30cm x 30cm), to the floor and allow it to dwell for 24 hours. After, remove the media and evaluate the bond of the graphic to the floor surface.</p>
<p>5. Use commercial detergent solutions and water to clean the surface prior to installation Refer to the cleaning instructions for your specific surface for the recommended cleaning solution. Ensure the surface is adequately dry prior to installation.</p>	<p>This removes any dirt or grime that may be present on the surface of the floor which can cause premature adhesion failures.</p> <p><i>Tip: Clean an area that is 4"-6" (10cm- 15cm) inches larger than the graphic.</i></p>
<p>6. Final cleaning to remove any grease or oil with a 50:50 IPA/water solution and a lint free cloth</p>	<p>Using IPA/water solution as the final cleaning step will help remove any residues or oils on the surface of the floor leaving it as clean as possible before installation.</p>
<p>7. For carpet applications, thoroughly vacuum carpets prior to installation</p>	<p>This will help remove contaminants within the carpet that may affect adhesion of the graphic to the carpet.</p>



Interior Floor Graphics

ARLON INSTALLATION GUIDE

INSTALLATION

RECOMMENDED PRACTICES	PURPOSE
<p>1. Use a hard squeegee with a lubricated protected edge Equip your squeegee with a felt sleeve or buffer edge to protect the graphic. While installing, consistently lubricate the squeegee edge with water.</p>	<p>Installation of floor graphics requires firm pressure. A lubricated protected edge hard squeegee will prevent damage (e.g. scratches) to the surface of the graphic during install.</p>
<p>2. Anchoring</p> <p>Top Hinge Position and align the graphic. Use masking tape to secure the top of the graphic to the floor. Lift the vinyl from the floor and using the wrap knife, cut liner to expose 1" - 2" (2.5cm - 5cm) inches of the adhesive across the width. Squeegee down the exposed adhesive to tack down the film. Remove the masking tape. Then, expose the area above tacked down area and apply. Use one hand to keep the graphic taut and with the other apply the graphic to the floor. Repeat removing the liner and applying down the graphic.</p>	<p>Top Hinge: works best for graphics that are much taller than wide</p> 
<p>Center Hinge Use masking tape to position the graphic onto the floor and apply a piece of tape down the vertical center of the graphic, ensure to keep the graphic smooth and taut throughout. Lift the vinyl and using the wrap knife, cut the liner to expose a 1" - 2" (2.5cm - 5cm) width down the vertical of the liner. Tack down the exposed adhesive. Starting on one side, remove the liner from the graphic. Hold the graphic taut with one hand and apply with the other hand moving outwards from the center of the graphic. Repeat the application for the remaining side of the graphic.</p>	<p>Center Hinge: works best for panels that are much wider than tall</p> 
<p>3. Use butt seaming for graphics that require more than 1 panel</p>	<p>Overlaps are not recommended due to the increase of trip hazard.</p>
<p>4. Repositioning If repositioning is needed, perform as soon as possible, and peel off the film slow and steady.</p>	<p>Repositioning as soon as possible prevents the film from adhering to the surface and makes it easier to adjust the vinyl.</p>
<p>5. Install at an ambient temperature of 60°F - 90°F (16°C - 32°C) for ease of install</p>	<p>Installation outside of the recommended ambient temperature range may lead to a difficult install or poor graphic adhesion to the floor surface.</p>



Interior Floor Graphics

INSTALLATION GUIDE

PRACTICES TO AVOID	PURPOSE
<p>AVOID placing floor graphics near floor surfaces that are inclined to get wet Place graphics far away from potential wet sources. Clean any liquid or spills on the graphic immediately.</p>	<p>Wet floor graphics may become slippery and precautions should be taken to avoid injuries due to slipping.</p>
<p>AVOID placing floor graphics in pathways of forklift or heavy machinery</p>	<p>Traffic from forklift or heavy machinery is likely to damage floor graphics, shortening the lifespan of the graphic.</p>
<p>AVOID installing floor graphics on cracked, uneven, or loose tile</p>	<p>Installing on uneven or loose tile is an increased trip hazard and damage may occur to the tile upon removal of the graphic.</p>
<p>AVOID aligning the edges of the graphics along grout lines</p>	<p>Grout lines are more difficult to adhere to. Therefore, avoid placing graphic edges on grout lines for best adhesion to the floor.</p> <div style="text-align: center;"> <p>Figure 1</p> <p>Figure 2</p> </div>

FINISHING/POST-INSTALLATION

RECOMMENDED PRACTICES	PURPOSE
<p>1. Re-squeegee the edges and corner of the graphic with firm pressure Squeegee along the outer 6" (15cm) of the graphic using firm, overlapping strokes.</p>	<p>This will help promote adhesion of the graphic to the surface and prevent against lifting at the weak point of the graphic.</p>

PRACTICES TO AVOID	BENEFITS
<p>AVOID standing or walking on graphics up to 8 hours after installation</p>	<p>This allows time for the adhesive to bond to the floor.</p>
<p>DO NOT clean or wax graphic for at least 24 hours after application</p>	<p>This allows time for the graphic to build a firm adhesion to the floor.</p>



Interior Floor Graphics

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MAINTENANCE

RECOMMENDED PRACTICES	PURPOSE
<p>1. Regularly Wash and Dust Use cleaning solutions to remove dirt and grime from the vinyl. Adequately dry the graphic after cleaning.</p>	<p>To keep the vinyl looking its best for the life of the wrap. Recommended solutions: mild soapy water.</p>

REMOVAL

RECOMMENDED PRACTICES	PURPOSE
<p>1. Starting from a corner of the graphic, pull the graphics towards you, away from the surface at a 70-90° degree angle for the easiest removal</p>	<p>This angle is best practice to make removal quicker and easier.</p>
<p>2. Cut and remove in 6" inch width sections at a time This will assist in removal of large floor graphics.</p>	<p>Smaller sections require less force to peel and require less force to remove.</p>

PRACTICES TO AVOID	PURPOSE
<p>DO NOT snap up vinyl Remove the vinyl steadily at a controlled speed.</p>	<p>Removing vinyl quickly may cause vinyl breakage or cause adhesive delamination.</p>