



William Smith Vehicle Wrapping

The Professional's Guide.



William Smith

The Professional's Choice.

The difference is in the detail.

As part of William Smith Group 1832, William Smith is one of the UK's leading distributors of self-adhesive materials and associated accessories to the sign, graphics and building interiors industries.

We place high standards on everything we do. As a trade-only company, we understand our customers and respect their business.



Vehicle Wrapping Films

With the popularity of vehicle wrapping as a business advertising medium, we can supply a range of films and accessories to achieve outstanding results.

Create an exciting first impression

A smartly wrapped vehicle can reinforce your company's brand and reassure customers they're dealing with experts. Vehicle wraps capture the attention of potential customers; "...on average a commercial vehicle can be seen by 3,000 people every hour..." Independent survey carried out in December 2008.

Protect your business reputation

70% of consumers are more likely to employ a company's services based on the appearance of their vehicles. With vehicle wraps, every mile you drive can help promote your business.

Protect your assets and increase their resale value

Vehicle wraps will protect your paintwork against stone chips and minor abrasions. The wrap can be fully removed at the end of the vehicles use maximising the potential resale value.

We offer a knowledge hub for the trade, containing videos, galleries, product and application bulletins, hints, tips and FAQs about vehicle wrapping. We're offering our knowledge of the tools and materials we supply, to help you in your vehicle wrap applications.

To access this useful information visit our website:

www.williamsmith.co.uk/vehicle-wrapping

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The best thing about vinyl wrapping is that there's no four week wait. A full wrap can be completed in just two days from start to finish. And with decent bodywork, it will look just as good as a re-spray but can cost half the price.

Mark Riccioni, Max Power

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FILMS FOR DIGITAL PRINT

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FILMS FOR COLOUR CHANGE

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FILMS FOR PROTECTION

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AUTOMOTIVE WINDOW TINT FILMS

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HINTS & TIPS

Wrap Film Features, the detail...

Repositionability

- **3M™ Controltac™** - slide and reposition graphics before activating the adhesive with pressure for perfect results.
- **Avery Dennison® Repositionable and Slideable (RS)** - adhesive technology that allows repositionability and slideability of graphics.
- **Arlon FLITE™ technology** - a lite contact adhesive system allowing graphics to float over a substrate until firm pressure is applied.

Air Release Liner Technology

- **3M™ Comply™** - non-visible air channels offer the ultimate air release technology for bubble free application.
- **3M™ microComply™** - micro air channel technology for a smooth visual appearance.
- **Avery Dennison® Easy Apply™ (EA)** - air egress system to reduce the risk of bubbles.
- **Arlon X-Scape Technology™** - air egress technology.
- **Arlon LX** - smooth finish, low profile X-Scape Technology™ air egress technology.

We provide all the essential wrap tools...

To complement our trade sign manufacturing and material supply service, we now hold an extensive range of high performance tools and accessories to help anyone using self-adhesive films complete their projects professionally and without any fuss.

Visit williamsmith.co.uk/brochures to download our latest Tools and Accessories Brochure

**3M**



3M™ Scotchcal™ Graphic Film with Comply™ IJ170





A value cast film for applications on to flat or moderately curved surfaces for car wraps and single step, shallow recessed van wraps.

Key Features:

- Up to 8 year durability, 50 micron film
- Features Comply™ v3 adhesive
- Grey adhesive for excellent hiding power and opacity
- Low tack adhesive for easy repositionable application

Code/Colour:
IJ170-10Cv3 Gloss White Comply™ Version 3

Recommended Overlaminate:
8518

 10 °C	 100 °C	 Comply™	 Single Step
MIN. APPLY TEMPERATURE	POST HEATING TEMPERATURE	ADHESIVE TYPE	RECESS TYPE



Arlon Fusion Wrap + FLITE™ Technology





A white gloss high-performance polymeric film with FLITE™ Technology.

Code/Colour:
Fusion Wrap Gloss White with FLITE™

Recommended Overlaminate:
3170

Key Features:

- Up to 7 years durability, 60 micron film
- Thin, Flexible, High-Performance Polymeric film, facilitating easier handling and installation
- Clean removability up to 2 years on most vehicle wrap application
- Superior conformability-great for vehicle wraps and graphics with simple to moderate curves
- Features FLITE Technology which allows for exceptional repositionability, developing a quick anchor tack to speed up installations

 15 °C	 100 °C	 Repositionable/ FLITE™ technology	 Shallow / Gentle Curves
MIN. APPLY TEMPERATURE	POST HEATING TEMPERATURE	ADHESIVE TYPE	RECESS TYPE



3M™ Controltac™ Graphic Films IJ180/ 3M™ Print Wrap Film Series IJ180mC

A premium cast film for optimised performance on vehicles with compound curves and corrugations.

Key Features:





- 10 year durability, 50 micron film
- Features Controltac™ and Comply™ v3 / micro Comply™ adhesive
- Available with grey adhesive for excellent hiding power and opacity

Code/Colour:

- IJ180-10 Gloss White
- IJ180C-10 Gloss White Comply™
- IJ180-10Cv3 Gloss White Comply™ Version 3
- IJ180mC-10 Gloss White Micro Comply™
- IJ180mC-114 Gloss Clear Micro Comply™
- IJ180mC-120 Metallic Micro Comply™
- IJ180mC-10UR Gloss White Micro Comply™ (Ultra Removable)
- IJ180mC-10LSE Gloss White Micro Comply™ (Low Surface Energy)
- IJ180mC-10SLS Gloss White Micro Comply™ (Stainless Steel)

Recommended Overlamine:

8518, 8520, 8548G, 8549L

 4-16 °C MIN. APPLY TEMPERATURE	 100 °C POST HEATING TEMPERATURE	 Controltac™ / Comply™ ADHESIVE TYPE	 Single Step RECESS TYPE
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Avery Dennison® MPI™ 1000 Series

A series of super cast and cast films, offering a range of adhesive features to tackle any application.

Key Features:





- MPI™ 1105 gives maximum life with up to 10 year durability and MPI™ 1104 and 1106 give a long life with up to 7 year durability
- All 50 micron films
- Premium cast MPI™ 1105 offers unparalleled performance on the most demanding 3D applications, whilst MPI™ 1104 offers an economy cast solution for versatile 3D performance
- MPI™ 1106 features a hi-tack adhesive suitable for low-energy and difficult substrates
- Available with Easy Apply™ and Repositionability and Slideability.
- Excellent printability on all platforms
- MPI™ 1105 also features Long Term Removability

Code/Colour:

- MPI 1104 Gloss White Repositionable
- MPI 1104 EA Gloss White Repositionable Easy Apply™
- MPI 1105 Gloss White
- MPI 1105 EA RS Gloss White Easy Apply™, Repositionable Slideable
- MPI 1106 Hi-tack EA Gloss White Hi-tack Easy Apply™

Recommended Overlamine:

DOL 1000 Gloss, DOL 1100 Matt, DOL 1460 Gloss, DOL 1480 Matt, DOL 1460 Z Gloss, DOL 1480 Z Matt

 4-16 °C MIN. APPLY TEMPERATURE	 100 °C POST HEATING TEMPERATURE	 Easy Apply™ / Repositionable Slideable ADHESIVE TYPE	 Deep / U Shape RECESS TYPE
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Arlon DPF6000 / DPF6100 XLP

A premium cast film, conformable on the most difficult recessed areas, providing superior conformability around rivets, curves, and contours.

Key Features:





- Up to 7 year durability, 50 micron film
- Low tack repositionable adhesive system
- Features X-Scape / XLP adhesive
- Tinted adhesive for excellent hiding power and opacity

Code/Colour:

- DPF 6000RP Gloss White
- DPF 6000RP Gloss Clear
- DPF 6100XLP Gloss White Low Profile X-Scape

Recommended Overlamine:

3210G, 3220M

 MIN. APPLY TEMPERATURE	 POST HEATING TEMPERATURE	 Repositionable / Xscape Technology™ ADHESIVE TYPE	 Deep / U Shape RECESS TYPE
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Arlon SLX™ Cast Wrap + FLITE™ Technology

Premium film designed for full and partial vehicle and fleet applications. Conforms around rivets, complex curves and deep channels with ease.

Key Features:





- Up to 7 year durability, 50 micron film
- Appropriate for the single installer, this film allows for a fast wrap
- Features FLITE™ Technology
- Vibrant and reliable print quality
- Tinted adhesive for excellent hiding power and opacity

Code/Colour:

SLX Gloss White FLITE™ Technology

Recommended Overlamine:

3270

 MIN. APPLY TEMPERATURE	 POST HEATING TEMPERATURE	 Repositionable / FLITE™ Technology ADHESIVE TYPE	 Deep / U Shape RECESS TYPE
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3M™ Scotchlite™ Print Wrap Film 780mC

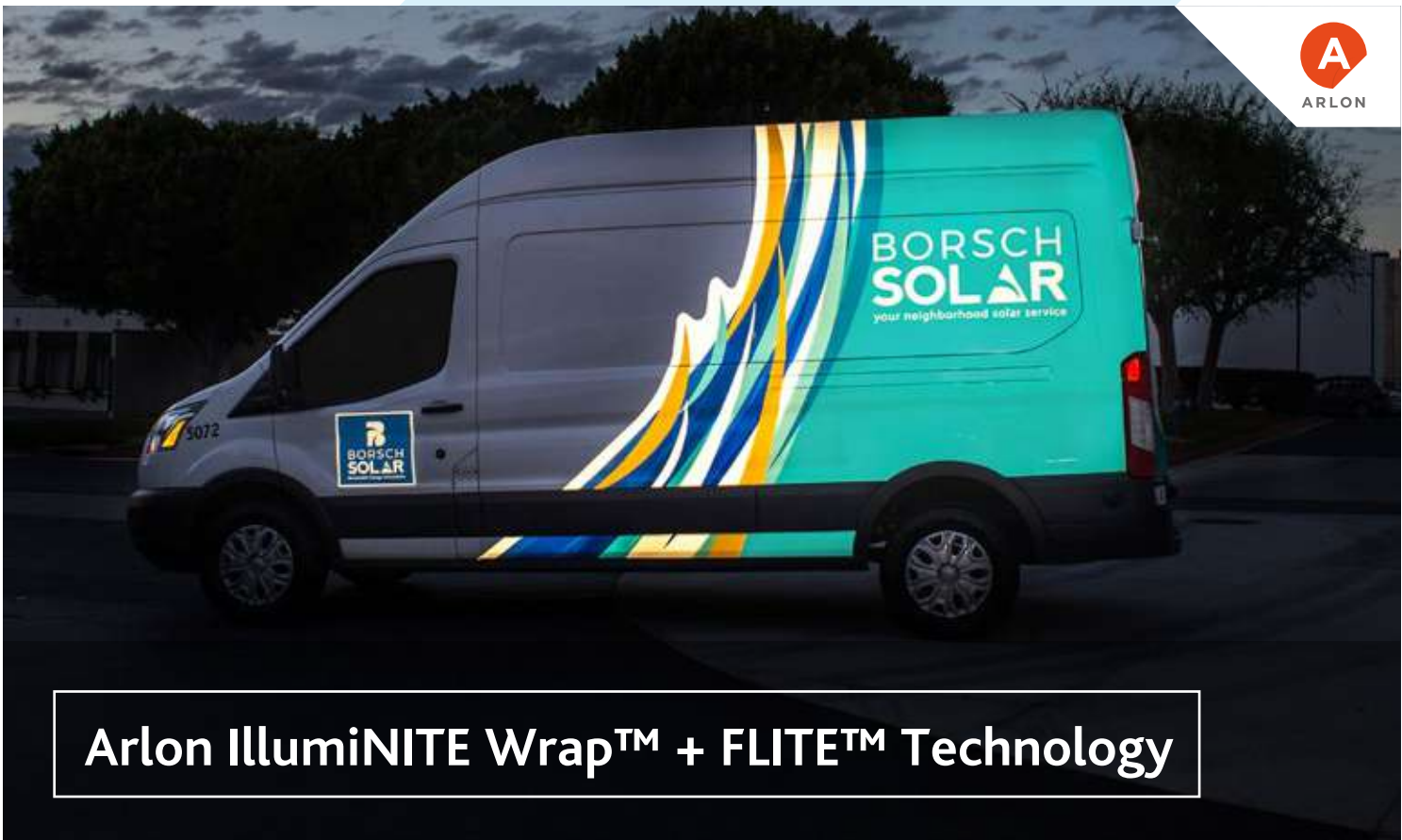
A white, flexible, enclosed-lens film offers robust retroreflective technology, which achieves a very dramatic appearance-enhanced at night.

- Key Features:**
- Up to 9 year durability, 165 micron film
 - Features Controltac™ and micro Comply™ adhesive
 - Creates dynamic graphics for any time of day, resulting in a daytime sparkle or a night time shine
 - 9 years expected performance life
 - Bruising or dark spots can be repaired using heat
 - Excellent retroreflectivity at wider viewing angles

Code/Colour:
780mC-10R White Reflective Removable

Recommended Overlamine:
8518

 4-38 °C	 100 °C	 Controltac™ / micro Comply™	 Single Step
MIN. APPLY TEMPERATURE	POST HEATING TEMPERATURE	ADHESIVE TYPE	RECESS TYPE







Arlon IllumiNITE Wrap™ + FLITE™ Technology

A digital print reflective vinyl film featuring FLITE™ Technology.

- Key Features:**
- Up to 7 year durability, 125 micron film
 - Features FLITE™ Technology which allows for exceptional repositionability to alleviate bruising or chatter lines resulting in optimal reflectivity
 - Easily conforms to irregular surfaces and glides over smooth surfaces
 - Brilliant graphics by day, luminous graphics by night
 - For full or partial wraps

Code/Colour:
IllumiNITE White Reflective with FLITE™ Technology

Recommended Overlamine:
3220, 3210

 +15 °C	 100 °C	 Repositionable / FLITE™ Technology	 Single Step
MIN. APPLY TEMPERATURE	POST HEATING TEMPERATURE	ADHESIVE TYPE	RECESS TYPE



3M™ Envision™ Print Wrap Films 480mC

Non-PVC film, ideal for long term applications on smooth surfaces and short term wall graphics on textured surfaces.

Key Features:





- Up to 12 year durability, 50 micron non-PVC film
- Highly conformable over compound curves, corrugations, deep channels and rivets
- Features Controltac™ and micro Comply™ adhesive
- Highly conformable and installs in extreme temperatures, requiring less heat during application than PVC vinyl film

Code/Colour:

LX480mC Gloss White Micro Comply™
SV480mC Gloss White Micro Comply™

Recommended Overlamine:

8548G, 8549L

 20 °C	 100 °C	 Controltac™ /micro Comply™	 Deep / U Shape
MIN. APPLY TEMPERATURE	POST HEATING TEMPERATURE	ADHESIVE TYPE	RECESS TYPE



Avery Dennison® MPI™ 1405 Easy Apply™ RS

An eco-friendly, PVC-free wrapping film for textured outdoor applications and vehicles.

Key Features:





- Up to 10 year durability, 51 micron PVC-free film
- Superior conformability to irregular shapes including complex curves and deep recesses on vehicles
- Features Easy Apply™, Repositionability and Slideability adhesive technology
- High gloss finish
- Long Term Removable adhesive

Code/Colour:

MPI 1405 EA RS Gloss White PVC-free Easy Apply™, Repositionable and Slideable

Recommended Overlamine:

DOL 6460

 +10 °C	 80 °C	 Easy Apply™ / Repositionable and Slideable	 Deep / U Shape
MIN. APPLY TEMPERATURE	POST HEATING TEMPERATURE	ADHESIVE TYPE	RECESS TYPE



HINTS & TIPS

Outgassing...

How should I outgas?

Outgassing is the process of removing solvents from the printed graphic. Prior to lamination, prints should be left at 23°C, for a minimum of 48 Hours. Images with dense colours may need more time. There should be a constant flow of air over the graphics to ensure the solvent is moved away from the face. As solvent is heavier than air, it will not move unless aided from airflow.

Why should I outgas?

Solvents still within the prints will cause the film to feel tacky when applying. Solvents soften the adhesive, removing any adhesive benefits. Once the graphic is applied, the solvent continues to soften and weaken the adhesive. Beware on panel edges and recesses, where the adhesive is weakened and no longer able to adhere, causing the film to 'pop' from the recess.

Post Heating...

How should I post heat?

Post heating must be done after each panel is completed using a digital thermometer for accurate temperatures. Always remove the heat gun from the area you're measuring, heat and measure every 3-4 inches referring to product bulletins for recommended temperatures. Use a small channel roller in the recesses.

Why should I post heat?

Post heating speeds up the process of adhesive flow and helps reach maximum adhesive bond over a short amount of time. Post heating removes the film memory. If you do not post heat correctly this will cause the film to pop from a recess.



FILMS FOR COLOUR CHANGE

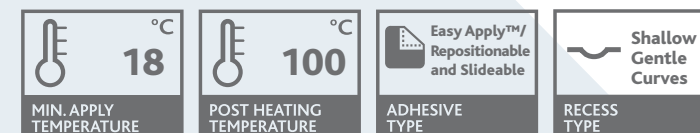
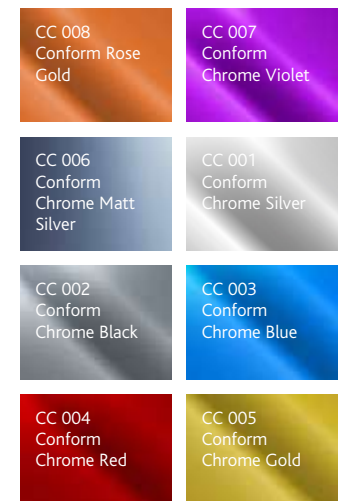


Avery Dennison® Conform Chrome

A premium quality semi-conformable film, designed for use in vehicle and graphic markets where chrome details are desired.

Key Features:

- Up to 3 year durability, 142 micron film
- Suitable for flat, concave and convex surfaces
- Features Easy Apply™, repositionability and slideability adhesive technology with long term removability
- Available in 1220mm width and variable roll lengths



FILMS FOR COLOUR CHANGE



Avery Dennison® Supreme Wrapping™ Film

Large range of premium cast, dual layer films designed for solid colour vehicle detailing and full wraps with exceptional 3D conformability.

- Key Features:**
- Up to 12 year durability, 80 micron film
 - Exceptional 3D conformability on concave and convex shapes including deep channels
 - Available in a choice of high gloss, satin, matt, metallic pearl and diamond finishes, resulting in 'paint-like' appearance
 - Features Easy Apply™, repositionability and slideability adhesive technology with long term removability
 - Available in 1524mm x 25m roll sizes

10 °C

MIN. APPLY TEMPERATURE

100 °C

POST HEATING TEMPERATURE

Easy Apply™/
Repositionable
and Slideable

ADHESIVE TYPE

Deep / U
Shape

RECESS TYPE

Satin Metallic			SWF 262 Satin Metallic Acid Green
SWF 952 Satin Metallic Dark Blue	SWF 971 Satin Metallic Dove Grey	SWF 978 Satin Metallic Graphite	
SWF 955 Satin Metallic Grey Blue	SWF 934 Satin Metallic Hans Brown	SWF 933 Satin Metallic Light Brown	
SWF 977 Satin Metallic Light Grey	SWF 821 Satin Metallic Energetic Yellow	SWF 931 Satin Metallic Stunning Orange	NEW!
SWF 961 Satin Metallic Hope Green	SWF 956 Satin Metallic Wave Blue	SWF 981 Satin Metallic Blissful Purple	NEW!
SWF 962 Satin Metallic Lively Green	SWF 957 Satin Metallic Cool Teal		NEW!

Gloss Metallic		SWF 274 Gloss Metallic Silver	SWF 235 Gloss Metallic Gold	SWF 270 Gloss Metallic Grey	SWF 212 Gloss Metallic Black	SWF 251 Gloss Metallic Bright Blue	SWF 231 Gloss Metallic Brown	SWF 250 Gloss Metallic Dark Blue
SWF 262 Gloss Metallic Acid Green	SWF 273 Gloss Metallic Quick Silver	SWF 065 Gloss Metallic Radioactive	SWF 045 Gloss Metallic Spark	SWF 241 Gloss Metallic Passion Red	SWF 281 Gloss Metallic Fun Purple	Pearl		SWF 561 Pearl Light Green
SWF 562 Pearl Dark Green	SWF 510 Pearl White	Gloss		SWF 058 Gloss Magnetic Burst	SWF 013 Gloss Eclipse	SWF 055 Cloudy Blue	SWF 064 Light Pistachio	SWF 057 Sea Breeze Blue
SWF 056 Smokey Blue	SWF 022 Gloss Ambulance Yellow	SWF 061 Gloss Emerald Green	SWF 062 Gloss Lime Green	SWF 044 Gloss Burgundy	SWF 010 Gloss White	SWF 041 Gloss Soft Red	SWF 021 Gloss Dark Yellow	SWF 012 Gloss Black
SWF 020 Gloss Yellow	SWF 030 Gloss Orange	SWF 040 Gloss Red	SWF 060 Gloss Dark Green	SWF 054 Gloss Light Blue	SWF 050 Gloss Blue	SWF 051 Gloss Dark Blue	SWF 070 Gloss Grey	SWF 074 Gloss Rock Grey
SWF 043 Gloss Carmine Red	SWF 042 Gloss Cardinal Red	SWF 063 Gloss Grass Green	SWF 052 Gloss Indigo Blue	SWF 053 Gloss Intense Blue	SWF 073 Gloss Light Grey	SWF 223 Gloss Sand Sparkle	SWF 071 Gloss Dark Grey	SWF 511 Gloss Pearl White Snow
Matt		SWF 130 Matt Orange	SWF 112 Matt Black	SWF 110 Matt White	SWF 161 Matt Khaki Green	SWF 170 Matt Dark Grey	SWF 162 Matt Olive Green	SWF 150 Matt Blue
Diamond		SWF 721 Diamond Amber	SWF 750 Diamond Blue	SWF 740 Diamond Red	SWF 710 Diamond White	SWF 770 Diamond Silver	Satin	
SWF 445 Satin Bubblegum Pink	SWF 412 Satin Black	SWF 410 Satin White	SWF 446 Satin Awesome Orchid	SWF 462 Satin Khaki Green	SWF 441 Satin Carmine Red	SWF 411 Satin Pearl White	SWF 450 Satin Dark Basalt	SWF 930 Satin Safari Gold
Matt Metallic		SWF 331 Matt Metallic Blaze Orange	SWF 333 Matt Metallic Brown	SWF 341 Matt Metallic Cherry	SWF 342 Matt Metallic Garnet Red	SWF 345 Matt Metallic Pink	SWF 350 Matt Metallic Blue	SWF 353 Matt Metallic Powder Blue
SWF 354 Matt Metallic Frosty Blue	SWF 355 Matt Metallic Night Blue	SWF 358 Matt Metallic Purple	SWF 361 Matt Metallic Apple Green	SWF 362 Matt Metallic Emerald	SWF 370 Matt Metallic Silver	SWF 371 Matt Metallic Anthracite	SWF 372 Matt Metallic Gunmetal	SWF 373 Matt Metallic Charcoal
SWF 320 Matt Metallic Yellow Green	SWF 351 Matt Metallic Brilliant Blue	SWF 374 Matt Metallic Grey	Extreme Texture		SWF 612 Carbon Fibre Black	SWF 622 Brushed Black	SWF 623 Brushed Aluminium	SWF 624 Brushed Steel
SWF 625 Brushed Titanium	SWF 630 Brushed Bronze	ColorFlow		SWF 801 Fresh Spring (Gold/Silver)	SWF 802 Roaring Thunder (Blue/ Red)	SWF 803 Rising Sun (Red/Gold)	SWF 804 Rushing Riptide (Cyan/ Purple)	SWF 805 Urban Jungle (Silver/Green)
SWF 811 Gloss Fresh Spring (Gold/ Silver)	SWF 812 Gloss Roaring Thunder (Blue/Red)	SWF 813 Gloss Rising Sun (Red/Gold)	SWF 814 Gloss Rushing Riptide (Cyan/Purple)	SWF 815 Gloss Urban Jungle (Silver/ Green)	SWF 816 Gloss Lightening Ridge	SWF 817 Satin Lightning Ridge		

FILMS FOR COLOUR CHANGE



3M™ Wrap Film Series 1080

Large range of premium cast, dual layer films designed for solid colour vehicle detailing and full wraps.

Key Features:

- 6 year durability, 90 micron film
- For flat or moderately curved surfaces
- Large colour/finish range of gloss, matt, metallic, satin, brushed, carbon fibre, flip and sparkle films
- Features Controltac and Comply™ Technology
- Excellent opacity to hide high-contrast surfaces
- Wider roll width of 1524mm for wrapping any section without joins

18-22 °C

MIN. APPLY TEMPERATURE

100+ °C

POST HEATING TEMPERATURE

Controltac™ / Comply™

ADHESIVE TYPE

Single Step

RECESS TYPE

Gloss →		1080-G46 Gloss Kelly Green	1080-G47 Gloss Intense Blue	1080-G54 Gloss Bright Orange*	1080-G77 Gloss Sky Blue	1080-G79 Gloss Light Ivory*	1080-GP258 Gloss Plum Explosion	1080-G31 Gloss Storm Gray
1080-G127 Gloss Boat Blue	1080-G247 Gloss Ice Blue	1080-G336 Gloss Green Envy	1080-G344 Gloss Liquid Copper	1080-G348 Gloss Fierce Fuchsia	1080-G356 Gloss Atomic Teal	1080-G363 Gloss Dragon Fire Red	1080-G251 Gloss Sterling Silver	1080-G335 Gloss Lemon Sting
1080-G364 Gloss Fiery Orange	1080-G377 Gloss Cosmic Blue	1080-G378 Gloss Blue Raspberry	1080-GP99 Gloss Pearl Black Rose	1080-G337 Gloss Blue Fire	1080-GP291 Gloss Glacier Grey	1080-G120 Gloss White Aluminium	1080-G201 Gloss Anthracite	
Gloss Metallic →		1080-G212 Gloss Black Metallic	1080-G203 Gloss Red Metallic	1080-G211 Gloss Charcoal Metallic	1080-G217 Gloss Blue Steel Metallic	1080-G227 Gloss Blue Metallic	1080-G241 Gloss Gold Metallic	
Matt →		1080-DM12 Dead Matt Black	1080-M26 Matt Military Green*	1080-M12 Matt Black*	1080-M27 Matt Dark Navy*	1080-M67 Matt Riviera Blue*	1080-M261 Matt Dark Grey*	1080-M21 Matt Silver*
Matt Metallic →		1080-M203 Matt Red Metallic*	1080-M206 Matt Pine Green Metallic*	1080-M211 Matt Charcoal Metallic*	1080-M227 Matt Blue Metallic*	1080-M229 Matt Copper Metallic*	1080-M230 Matt Grey Aluminium*	
Brushed Metal →		1080-BR120 Brushed Aluminium*	1080-BR201 Brushed Steel*	1080-BR212 Brushed Black Metallic*	1080-BR217 Brushed Steel Blue	1080-BR230 Brushed Titanium*	Sparkle →	
1080-GP253 Cinder Spark Red	1080-GP272 Gloss Pearl Midnight Blue*	Satin →		1080-S10 Satin White*	1080-S57 Satin Key West*	1080-S51 Satin Battleship Grey*	1080-S120 Satin White Aluminium	1080-S261 Satin Dark Grey*
1080-S271 Satin Thundercloud*	1080-S327 Satin Ocean Shimmer	1080-S335 Satin Bitter Yellow	1080-S344 Satin Canyon Copper	1080-S347 Satin Perfect Blue	1080-S363 Satin Smoldering Red	1080-SP10 Satin Pearl White*	1080-SP240 Satin Frozen Vanilla*	1080-SP273 Satin Vampire Red*
Carbon Fibre →		1080-CFS10 Carbon Fibre White*	1080-CFS201 Carbon Fibre Anthracite*	1080-CFS12 Carbon Fibre Black*	Flip →		1080-SB12 Shadow Black*	1080-MX12 Matrix Black*
1080-GP287 Flip Electric Wave	1080-SP236 Satin Flip Volcanic Flare*	1080-SP276 Flip Caribbean Shimmer*	1080-SP277 Flip Glacial Frost*	1080-GP280 Gloss Flip Ghost Pearl*	1080-SB26 Shadow Military Green*	Chrome →		1080-GC451 Gloss Silver Chrome

*Phasing to 2080, available until stock exhausted

FILMS FOR COLOUR CHANGE



3M™ Wrap Film Series 2080

A NEW multi-layer 3D conformable cast self-adhesive film for solid colour detailing and full wraps on a whole host of vehicles.

Key Features:

- Fully 3D conformable, ideal for deep recesses
- Gloss colours have a clear protective film layer to help prevent scratching on installation (this is removed once in place)
- Up to 8 years durability, 90 micron film
- 40 colours (more to follow soon)
- Easy to apply and remove
- 1524mm roll width, ideal for wrapping vehicle panels without joins

16-32 °C

MIN. APPLY TEMPERATURE

100+ °C

POST HEATING TEMPERATURE

Controltac™ / Comply™

ADHESIVE TYPE

Deep / U Shape

RECESS TYPE

Gloss		2080-G10 Gloss White	2080-G15 Gloss Bright Yellow	2080-G79 Gloss Light Ivory	2080-G16 Gloss Light Green	2080-G13 Gloss Hotrod Red	2080-G25 Gloss Sunflower	2080-GP282 Gloss Ember Black
2080-G83 Gloss Dark Red	2080-G12 Gloss Black	2080-G14 Gloss Burnt Orange	2080-GP292 Gloss Galaxy Black	2080-GP240 Gloss White Gold Sparkle	2080-G53 Gloss Flame Red	2080-GP272 Gloss Midnight Blue	2080-GP298 Gloss Wicked	2080-G55 Gloss Lucid Yellow
2080-G54 Gloss Bright Orange	2080-G103 Gloss Hot Pink	2080-G24 Gloss Deep Orange	Metallic		2080-M212 Black Metallic	2080-M217 Slate Blue Metallic	Matt	
2080-M10 Matt White	2080-M22 Matt Deep Black	2080-M13 Matt Red	2080-M54 Matt Orange	2080-M12 Matt Black	2080-M2 Matt Military Green	2080-M261 Matt Dark Gray	2080-M27 Matt Indigo	2080-M67 Matt Riviera Blue
2080-M21 Matt Silver	2080-M230 Matt Grey Aluminum	Matt Metallic		2080-M203 Matt Red Metallic	2080-M206 Matt Pine Green Metallic	2080-M209 Matt Brown Metallic	2080-M211 Matt Charcoal Metallic	2080-M227 Matt Blue Metallic
2080-M229 Matt Copper Metallic	Brushed Metal		2080-BR120 Brushed Aluminium	2080-BR201 Brushed Steel	2080-BR212 Brushed Black Metallic	2080-BR230 Brushed Titanium	Satin	
080-SP10 Satin Pearl White	2080-SP242 Satin Gold Dust Black	2080-S12 Satin Black	2080-S10 Satin White	2080-SP240 Satin Frozen Vanilla	2080-S196 Satin Apple Green	2080-SP59 Satin Caramel Luster	2080-SP273 Satin Vampire Red	2080-S57 Satin Key West
2080-S261 Satin Dark Grey	2080-S271 Satin Thundercloud	2080-S51 Satin Battleship Grey	Carbon Fibre		2080-CFS10 Carbon Fibre White	2080-CFS12 Carbon Fibre Black	2080-CFS201 Carbon Fibre Anthracite	
Flip		2080-GP281 Gloss Flip Psychedelic	2080-SP280 Satin Flip Ghost Pearl	2080-GP278 Gloss Flip Deep Space	2080-SP236 Satin Flip Volcanic Flare	2080-SP281 Satin Flip Psychedelic	2080-MX12 Matrix Black	2080-SB12 Shadow Black
2080-SB26 Shadow Military Green	2080-SP276 Satin Flip Caribbean Shimmer	2080-SP277 Satin Flip Glacial Frost						



3M™ Wrap Overlamine Series 8900

Speciality overlaminates offering combinations of colours and textures like never before with coloured or printed films..

Key Features:

- Up to 6 year durability, 50 micron film
- Textures include carbon fibre, brushed and sparkle effects
- Ideal for vehicle wraps to achieve textured look and feel
- For use on 3M™ 1080 and IJ180Cv3 films

8900-BR100 Brushed	8900-G301 Mystic Silver
8900-CF100 Carbon Fibre	8900-G701 Starry Silver
8900-G304 Sunburst Gold	8900-S701 Frosty Silver
8900-G303 Ruby Red	

Ideal for application on to the most severe recessed areas of a vehicle, without the need for cutting.

Key Features:

- Up to 6 year durability, 90 micron film
- Range of gloss, matt, metallic and satin colours
- Features Controltac™ and Comply™
- Conformable on the most difficult recessed areas

 20 °C MIN. APPLY TEMPERATURE	 100+ °C POST HEATING TEMPERATURE	 Controltac™ / Comply™ ADHESIVE TYPE	 Deep / U Shape RECESS TYPE
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3M™ Wrap Film Series 1380

Gloss →	1380-G10 Gloss White	1380-G12 Gloss Black	1380-G55 Gloss Lucid Yellow
1380-G212 Gloss Black Metallic	1380-G216 Gloss Sapphire Green Metallic	1380-G237 Gloss Navy Blue Metallic	1380-G13 Gloss Hotrod Red
1380-G24 Gloss Deep Orange	1380-G41 Gloss Storm Grey	1380-G45 Gloss Royal Yellow	1380-G53 Gloss Flame Red
1380-G281 Gloss Mineral Grey Metallic	Matt →	1380-M10 Matt White	1380-M12 Matt Black
1380-M126 Matt Army Green	1380-M212 Matte Black Metallic	1380-M219 Matte Brown Metallic	1380-M221 Matte Charcoal Metallic
1380-M230 Matt Grey Aluminium	1380-M287 Matt Slate Blue Metallic	1380-M291 Matt Granite Metallic	Satin →
1380-S12 Satin Black	1380-S284 Satin Autumn Orange Metallic	1380-S130 Satin Silver Metallic	1380-S257 Satin Ice Blue Metallic

FILMS FOR COLOUR CHANGE


isee2

iSee2 Total Wrap

Gloss	70.100 ACT Brilliant White	70.101 ACT Ivory White	70.102 ACT Calcite White	70.200 ACT Super Black	70.103 ACT Latte Beige	70.300 ACT Buttercup Yellow	70.400 ACT Mandarin Orange
70.500 ACT Chilli Red	70.600 ACT Midnight Blue	70.601 ACT Cobalt Blue	70.602 ACT Ocean Blue	70.700 ACT Hunter Green	70.701 ACT Bottle Green	70.702 ACT Apple Green	70.501 ACT Volcano Red
Matt	71.100 ACT Snowflake White	71.200 ACT Flat Black	71.400 ACT Sunset Orange	71.500 ACT Strawberry Red	71.701 ACT Acid Green	71.801 ACT Autumn Gold	71.900 ACT Shark Grey
71.901 ACT Satellite Silver	71.902 ACT Anthracite Grey	71.903 ACT Storm Grey	Carbon Fibre	50.910 ACT Carbon Fibre White	50.920 ACT Carbon Fibre Black	50.950 ACT Carbon Fibre Red	50.960 ACT Carbon Fibre Blue
50.980 ACT Carbon Fibre Gold	50.990 ACT Carbon Fibre Silver	Special	10.201 Ultra Black	12.200 ACT Metallic Havana Black	12.400 ACT Metallic Orange Fizz	15.180 ACT Pearlescent Gold	


A range of competitively priced hybrid vehicle wrap films suitable for applications on cars or flat panel vans with simple curves and gentle contours.

- Key Features:**
- Up to 7 year durability, 100 micron film
 - Available in gloss, matt, textured, metallic and pearlescent colours
 - Incredible dimensional stability and long term durability
 - Features ACT
 - Wider roll width of 1524mm for wrapping any section without joins




10°C

MIN. APPLY TEMPERATURE




100°C

POST HEATING TEMPERATURE



ACT

ADHESIVE TYPE



Shallow / Gentle Curves

RECESS TYPE

SOTT




SOTT High Gloss Carbon Series

A high-gloss, cast film with a realistic carbon fibre pattern, creating a 3D depth effect. Suitable for use in extreme forms including channels.


Key Features:

- Up to 4 year durability, 100 micron film
- Features Automotive X-adhesive with micro air channels and is repositionable
- The pattern runs diagonally, but remains very stable when the film is stretched and worked




10 °C

MIN. APPLY TEMPERATURE




100-110 °C

POST HEATING TEMPERATURE



Automotive-X

ADHESIVE TYPE



convex & concave surfaces

RECESS TYPE



Caring for Your Vehicle Graphics...

Care for your vehicle graphics like you would any fine paint finish. Using high quality products designed specifically for car care, these cleaning and maintenance procedures will help keep your vehicle graphics looking their best.

1. Wash regularly

- Wash whenever the car appears dirty. Contaminants allowed to remain on the graphic may be more difficult to remove during cleaning.
- Rinse off as much dirt and grit as possible with water.
- Use a wet, non-abrasive detergent such as VION Car Care Cleaner and a soft, clean cloth or sponge.
- Rinse thoroughly with clean water. To reduce water spotting, immediately use a silicone squeegee to remove water and finish with a clean microfibre cloth.

2. Automated car washes

- Brush-type car washes are not recommended as they can abrade the film and cause edges to lift or chip, as well as dulling the film's appearance. Brushless car washes are acceptable.

3. Pressure washing

- Although hand washing is the preferred cleaning method, pressure washing may be used, providing these conditions are strictly followed:
- Ensure the water pressure is kept below 2000 psi (14 MPa).
- Keep water temperature below 80°C (180°F).
- Use a spray nozzle with a 40 degree wide angle spray pattern.
- Keep the nozzle at least 300mm (1 foot) away from and perpendicular (at 90 degrees) to the graphic.
- Beware holding the nozzle of a pressure washer at an angle to the graphic, as it may lift the edges of the film.

4. Difficult contaminants

- Soften difficult contaminants such as bug splatter, bird droppings, tree sap and similar contaminants by soaking them

for several minutes with very hot, soapy water as early as possible. Rinse thoroughly and dry.

- If further cleaning is needed, test one of these products in an inconspicuous area to ensure no damage to the graphics. Spot clean the contaminants.
- Do not use rough scrubbing or abrasive tools, which will scratch the film. Wash and rinse off all residue immediately.

5. Fuel spills

- Wipe off immediately to avoid degrading the vinyl and adhesive. Then wash, rinse and dry as soon as possible.

6. Polish and wax

- Most standard graphic films and overlaminates can be polished or waxed with a high quality car wax.
- Before use, test and approve in an inconspicuous area. Do not use any abrasive polishes or cutting compounds.
- 3M do not recommend any polishing or wax product for the matt or textured films.

7. Store indoors or under cover whenever possible

- Vinyl graphics (just like paint) are degraded by prolonged exposure to sun and atmospheric pollutants, particularly on the horizontal surfaces such as bonnet, boot lid and roof.
- Whenever possible, store in a garage or at least in a shaded area during the day. At night protect the car from dew or rain, which may contain acidic pollutants (a common problem in many large metropolitan areas).
- When a garage is not available, consider using a cloth car cover at night. If your graphics start to discolour or turn brown (which is caused by acidic pollution), immediately remove the graphics from the vehicle to avoid staining the underlying paint.



3M™ VentureShield™

An optically clear coated urethane film that protects automotive paint finishes against stonechips and minor abrasions.

Key Features:

- Up to 5 year durability, 165 micron film
- Protects the most vulnerable surfaces on your vehicle from damage caused by stone chips, environmental elements, bugs, scratches and minor abrasions
- Easily applied to bumpers, headlights, wings, wingmirrors and bonnet edges
- Available in kit format for most vehicle types
- Warranted against yellowing or cracking

Avery Dennison® Pure Defense Series

Transparent protection appropriate for high impact areas. The film protects from damage such as stone chipping, scratches and everyday wear and tear.

Key Features:

- | | |
|----------------------------------------|--------------------------------------|
| PU | PVC |
| • High gloss, 150 micron PU film | • 150 micron PVC film |
| • Highly transparent finish | • Uniform surface appearance |
| • Heat activated self healing function | • Up to 5 years durability |
| • Up to 8 years durability | • Conforms to flat and simple curves |

Code/Colour:

- Pure Defense PU
Pure Defense PVC

Avery Dennison® Supreme Protection Film - XI

A high quality self-healing clear film that prevents damage from a range of challenges to vehicle paintwork.

Key Features:

- Up to 10 years, 165 micron, protection from stone chips, road debris, insect stains and weathering
- Small scratches disappear at room temperature and medium scratches when exposed to heat with 'self-healing' thanks to top coat
- Ultra-clear to ensure excellent aesthetics
- UV resistance
- Low initial tack for wet application
- Easy to trim and remove
- Solid heat resistant

Code/Colour:

- SPF-XI High Gloss



Protemp™ Black Shade Series

A range of low cost non-metalised, dyed polyester automotive window tint films.

Key Features:

- Choice of charcoal shading levels
- Does not interfere with mobile phone, GPS or satellite radio reception
- Low cost dyed heat gain reduction technology
- Protection from the sun's heat and glare
- Sun Protection Factor of 100, blocking almost all UVA and UVB rays

Code/Colour:

- BS 5
- BS 15
- BS 30
- BS 45

3M™ Automotive Window Films Colour Stable Series

Range of durable, colour stable, scratch resistant window tint films.

Key Features:

- Choice of privacy levels and colours, manufactured with carbon pigments to give the most natural darkest looking finish
- Colour will not fade to purple over time
- Rejects heat and UV to reduce glare
- Guaranteed not to bubble or blister
- Scratch resistant coating aids long lasting durability

Code/Colour:

- CS 5
- CS 20
- CS 35
- CS 50

3M™ Automotive Window Films Crystalline Series

High performance films, providing a combination of high visible light transmission, low visible light reflectivity and exceptionally high heat gain reduction capabilities.

Key Features:

- Virtually clear film
- Multi-layer metal free nano-technology
- Rejects more heat than darker films
- No communications or network interference

Code/Colour:

- CR 40
- CR 70
- CR 90

3M™ Automotive Window Film Obsidian Series

A range of automotive sun control window films that reduce heat and block out UV light.

Key Features:

- Rejects up to 44% of the total solar energy coming through your windows to keep you cool and protect you from harmful UV rays
- Blocks up to 99% of UV light to provide a Total Sun Protection Factor of up to 1000
- Available in different tint levels that block up to 92% of visible light, providing increased privacy and protection of valuables

Code/Colour:

- Obsidian 5
- Obsidian 15
- Obsidian 25
- Obsidian 50

3M™ Scotchshield™ Automotive Security Series

Range of automotive window films combining sun control technology in a 100 micron safety film.

Key Features:

- Glass shatter and impact protection which provides a powerful deterrent to smash and grab theft
- Rejects heat from the sun and increases privacy
- Protect vehicle occupants from uncomfortable heat and glare
- Sun Protection Factor of over 100

Code/Colour:

- SAS 5
- SAS 20
- SAS 35
- SAS 50
- SAS Clear



The Professional's Choice.
The difference is in the detail.

WILLIAM SMITH GROUP 1832
ACADEMY
TRAINING THE PROFESSIONALS

INTRODUCING OUR: VEHICLE WRAP TRAINING COURSE

This comprehensive two day Vehicle Wrap Training Course is perfect for beginners and also relatively new wrappers who would like to improve on their skills. It covers all the basic techniques to wrap an entire vehicle, using a range of branded digital print and coloured wrap films, including 3M™, Avery Dennison and Arlon.

The course is practically based but with some theory during the first morning. This gives each attendee as much time as possible to work with the wrapping films on a variety of car and van panels, practising techniques to approach various challenges.




Our trainers Gill Harrison, Training and Application Manager at William Smith and Mike Szwacki; a 3M™, Avery Dennison and Arlon approved wrapper, will allow for plenty of one to one tuition during the two days.

The session will include:

- A great balance of theory/hands-on practice
- Opportunity to use a range a range of branded wrap films, including 3M™, Arlon and Avery Dennison.
- Learn how to approach irregular surfaces and recesses found on many vehicles
- Tool bag including essential wrapping tools
- Certification of attendance

Visit williamsmith.co.uk/training for further details and dates of Academy courses or williamsmith.co.uk/brochures to download the Academy Training brochure.

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