



William Smith

MAXIMISING SPACES **WITH INSIDE KNOWLEDGE.**

William Smith Internal Film Solutions

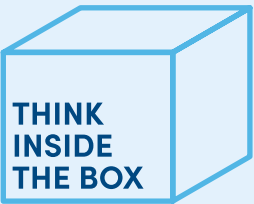
MAXIMISING SPACES WITH INSIDE KNOWLEDGE.

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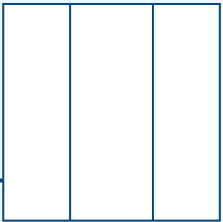
Internal Environments	05
Interior Walls Films	16
Architectural Films	24
Floor Films	28
Glass Finishes	32
Window Films	44



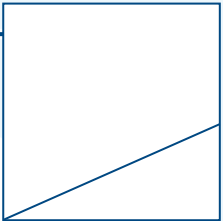
PLANNING INTERNAL SPACE?



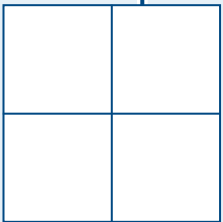
When planning an internal commercial space, think how you can maximise the potential with the use of internal films. From walls, floors, windows and furniture. We have it covered.



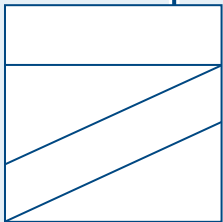
GLASS FINISHES



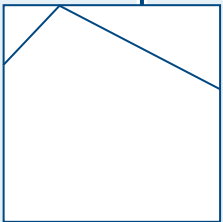
INTERIOR WALL FILMS



WINDOW FILMS



ARCHITECTURAL FILMS

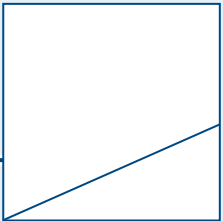


FLOOR FILMS

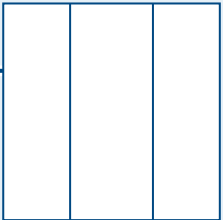
RETAIL

Retail spaces present a fantastic opportunity to embrace the endless design possibilities for interior space using film. Quickly transform spaces to suit seasonal trends and promotions with cost effective solutions.

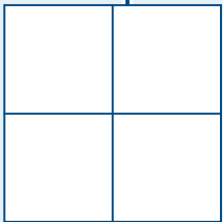
Wall and window graphics are a simple, yet effective way to communicate brand messaging to customers. Architectural finishes are perfect to upcycle existing fixtures and fittings whilst ensuring no loss of revenue thanks to the swift application process. Window films can also be used in the retail environment to provide a practical solution to issues such as garment fading from damaging UV rays, as well as increasing security and protecting customers and staff from flying glass in the event of an incident.



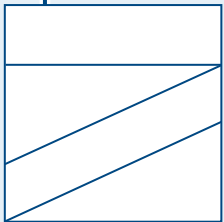
INTERIOR WALL FILMS



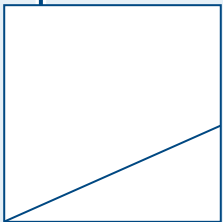
GLASS FINISHES



WINDOW FILMS



ARCHITECTURAL FILMS

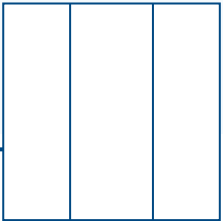


WHITE BOARD FILMS

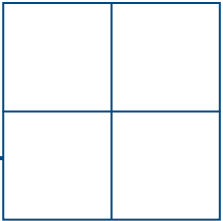
OFFICES

A positive working environment boosts productivity, improves employee morale, and increases collaboration.

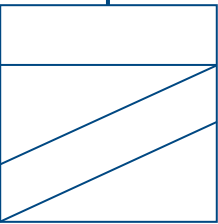
Wall films can be used to brand a workspace with company values and inspirational quotes to motivate and encourage unity. Architectural films are a good solution to transform existing office furniture on a budget. Window films can be utilised to increase employee comfort levels, reducing heat gain and glare on screens whilst also reducing energy consumption and costs. A selection of privacy window films and glass finishes are also available to increase the functionality of a space, from adding an element of discretion to glass walled offices, to maximising wall or glass spaces with whiteboard films.



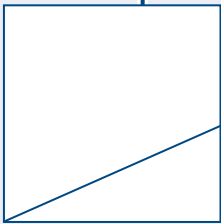
GLASS FINISHES



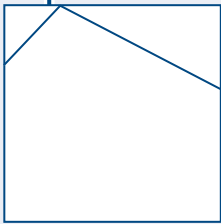
WINDOW FILMS



ARCHITECTURAL FILMS



INTERIOR WALL FILMS

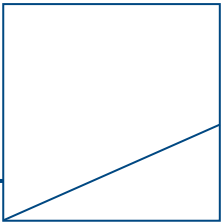


FLOOR FILMS

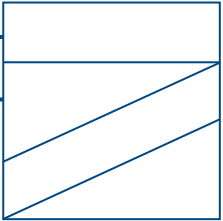
LEISURE

Match the energy of leisure environments with bold, bright graphics for gyms, or tranquil, calming spa décor. Interior films present a myriad of options for creating the perfect ambience in any leisure setting.

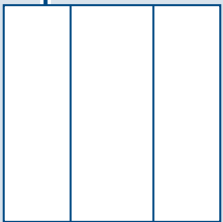
Get creative with zoned areas using floor and wall graphics. Produce aspirational imagery or provide directional signage using vinyl. Privacy films are an ideal solution for changing rooms and swimming pool areas. Whether using a one or two-way vision window film, or a glass finish with privacy properties, such as VION Décor Window Films or 3M FASARA, there are films to achieve your required look and privacy level.



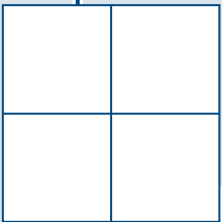
INTERIOR WALL FILMS



ARCHITECTURAL FILMS



GLASS FINISHES

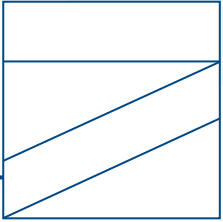


WINDOW FILMS

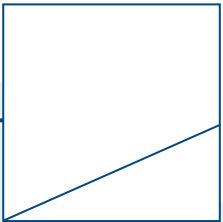
HOSPITALITY

Create a truly unique, interior aesthetic and customer experience in hospitality spaces using specialist films.

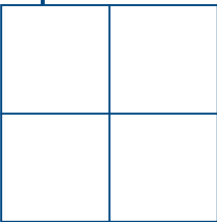
Bars and restaurants are a particularly good fit for refurbishments using film. Expensive fixtures and fittings, such as bars, can be upcycled with minimal fuss, using architectural films to really transform a space and create a whole new dynamic. Niche films such as textured wallpapers, Organoid, and SQUID are a fantastic option to generate high-end, bespoke luxury.



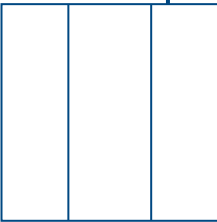
ARCHITECTURAL FILMS



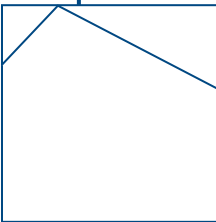
INTERIOR WALL FILMS



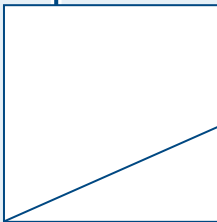
WINDOW FILMS



GLASS FINISHES



FLOOR FILMS

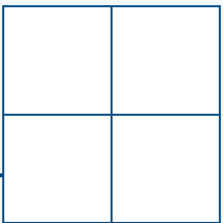


WHITE BOARD FILMS

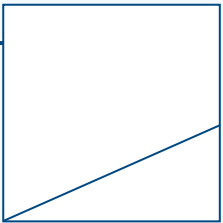
EDUCATION

An engaging learning environment increases students' attention and focus, promotes meaningful learning experiences, increases motivation, and reduces anxiety.

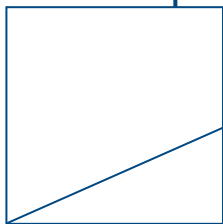
Wall, floor, and window graphics are all excellent mediums for delivering powerful, inspiring messaging, as well as practical information, whilst reinforcing the institute's vision, values, and ethos. Window films are frequently applied in educational buildings to increase student and staff comfort levels, reducing solar heat gain and glare on screens whilst reducing energy consumption and costs. Architectural films are a great option for schools on a tight budget to give an internal space a facelift with minimal disruption, while whiteboard films can turn any blank wall or glass surface into a functional space.



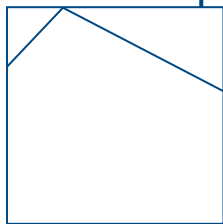
WINDOW FILMS



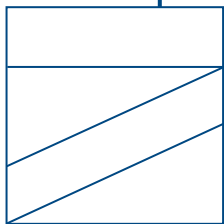
WHITE BOARD FILMS



INTERIOR WALL FILMS



FLOOR FILMS



ARCHITECTURAL FILMS

HEALTHCARE

Cleanliness is crucial in healthcare settings, making 3M™ DI-NOC™ Architectural Finishes PS Series the perfect choice for upcycling in medical environments. The films feature antibacterial preservatives to protect the products from degradation from microbes such as mould and fungus. Ideal applications include doors, walls, cabinets, reception desks and other surfaces in high-traffic zones.

Directional floor and wall graphics work well in busy public areas to guide people around the building. Retrofit window films can provide the perfect solution to common issues posed by large hospital windows. Safety and security films enhance glass safety, while solar films can reduce energy costs, and combination films offer increased glass safety with all the benefits of solar control films.



MAXIMISING SPACES WITH INTERIOR WALL FILMS

Transform interior walls with film to create dynamic, cohesive environments. From informative way finding solutions to the creation of ambiance, functional applications and bold branding; wall films bring interiors to life!

INTERIOR WALL FILMS HIGH TACK FILMS

VION VP3900

A lower cost solution featuring a high tack adhesive, ideal for short term graphics on low energy surfaces. This three year printed durability, monomeric calendered digital printing film (up to five year unprinted) has a solvent based adhesive and is suitable for application on to flat and slightly curved surfaces, inside and out. **Available in matt white.**

Films in series: VP3900-12HT.

- Monomeric Calendered Film
- 3-5 year durability
- Interior and exterior use
- 80 micron

VION VP5900

A lower cost solution featuring a high tack adhesive, ideal for mid- term graphics on low energy surfaces. Five year printed durability, polymeric calendered digital printing film (up to seven year unprinted) suitable for a wide range of intermediate applications on to flat and slightly curved surfaces. **Available in gloss white.**

Films in series: VP5900-02HT.

- Polymeric Calendered PVC
- 5-7 year durability
- Internal, external use
- 75 micron



ARLON DPF 8200™ HIGH TACK

Designed for permanent, high tack, exterior wall applications to improve visual wall graphics with near seamless results.

DPF 8200™ High Tack performs best when on the following exterior wall surfaces: tile, wood, smooth painted and unpainted, plastics and metal. The film can also be used for general signage purposes on typical plastics such as HDPE, LDPE, fibre glass, corrugated plastics, acrylics and long-term signage surfaces.

Films in Series: DPF8200.

- Polymeric Calendered PVC
- 7 year durability
- Internal and external use
- 90 micron



3M™ ENVISION™ PRINT FILM 48

Envision™ 48 is a highly versatile, non-PVC, intermediate print film used for the widest range of applications. It combines excellent print quality with ease of installation and removal.

48 is compatible on all printer platforms and can be used on flat or simple curved areas. This film is a great choice for interior wall application projects requiring a 'green' solution.

Available with permanent or removable adhesive, and with or without Controltac™ and Comply™.

Films in series: 48-20, 48C-20, 48C-20R.

- Non-PVC Polymer
- 5 year durability
- Internal, external use
- 80 micron



INTERIOR WALL FILMS FILMS FOR TEXTURED WALL SURFACES

ARLON DPF 8000™ ULTRA TACK

DPF 800 Ultra Tack is the material of choice for questionable, challenging surfaces.

The ultra-high tack adhesive is specifically formulated for the lowest energy surfaces. Use with 3220 cast overlaminate to deliver excellent results on brick and concrete walls.

Available in satin white and gloss clear.

Films in series: DFP8000-02, DPF8000 Clear.

- Polymeric Calendered PVC
- 7 year durability
- Internal and external use
- 90 micron

3M™ ENVISION™ PRINT WRAP SERIES 480MC

Envision™ high-performance, non-PVC films are extremely flexible, designed for the application of large format graphics onto contours and 3D corrugations, including textured walls. 3M™ Envision™ Print Wrap Film LX480mC is suitable for latex, SV480mC for solvent inkjet printers.

Combining Controltac™ and Comply™ micro technology features for ultimate repositionability and air release.

This film is a great choice for textured wall application projects requiring a 'green' solution.

Films in series: LX480mC, SV480mC.

- Non-PVC Polymer
- 12 year durability
- Internal, external use
- 50 micron



INTERIOR WALL FILMS WALLPAPERS & DECORATIVE WALL FILMS

ARLON DPF 4200

Arlon DPF 4200 Series is a range of digital print films suitable for interior wall applications including advertising, murals and POS displays.

Available in both matt and canvas finishes, DPF 4200 is a white vinyl film with a clear permanent pressure-sensitive adhesive and is intended for efficient and easy installations.

Films in series: DPF 4200 Canvas, DPF 4200 Matt.



Canvas

- Polymeric Calendered PVC
- Up to 7 year durability
- Internal use
- 150 micron

AVERY DENNISON MPI 8000 WALL FILM SERIES

Avery Dennison MPI 8000 Wall Film Series, the Interior Design Collection is a range of 8 digital print materials offering inspiring graphic solutions for interior design.

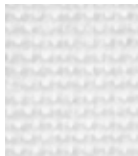
Access a whole new spectrum of creative possibilities with the MPI™ 8000 Series for wall decoration including a **printable textile film**, and **printable textured wallpapers as well as printable PVC films with pure canvas, crushed stone, coarse stucco and natural wood textures**.

A choice of adhesives supports the creation of unique short- and longer-term printed solutions for wall decoration in hospitality areas, retail areas, exhibitions and more. Films can be applied without the need for primer, and the excellent opacity ensures that the underlying wall is completely concealed.

- PVC and PVC Free Options
- Up to 4 year (unprinted)
- Internal use
- 90-290 micron



Films in series: MPI™ 8726 Wall Film Canvas Hi-Tack, MPI™ 8726 Wall Film Stone Hi-Tack, MPI™ 8726 Wall Film Stucco Hi-Tack, MPI™ 8726 Wall Film Wood, MPI™ 8626 Wall Film Hi-Tack, MPI™ 8621 Wall Film Removable, MPI™ 8024 Wall Film EA Hi-Tack, SP 8526 Wall Film Textile.



Textile



Wood



Stone



Stucco



ARLON DPF WALL DECORATION SERIES

DPF 207 is a **matt white vinyl film** with a clear removable pressure-sensitive adhesive. The adhesive is specially designed to have initial repositionability to walls without compromising the ultimate bond.

These are the ideal films for wall decoration that require ease of application as well as removability.

Films in series: DPF207.

- Polycoated Fabric
- Up to 1 year durability
- Internal use
- 150 micron



INTERIOR WALL FILMS

SPECIALIST WALLS FILMS

AVERY DENNISON ORGANOID NATURAL SURFACES

See, feel, and smell the environment around you with Avery Dennison Organoid, a natural surfaces finish designed to create unique interior decoration.

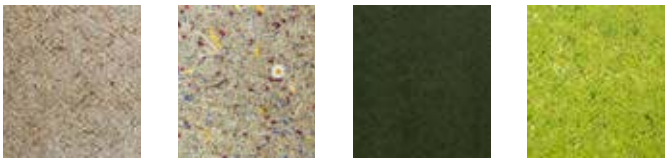
A three-dimensional product, you're able to feel the structure of natural materials and smell the fragrance of the desired experience.

Using 100% natural face materials, this PVC-free film is available in seven different surface types including Alpine Hay and Moss Bright Green.

- PVC-free film using natural materials
- Up to 5 years durability
- Internal use



Films in series: Moss Bright Green, Moss Dark Green, Mountain Hay & Marguerite, Original Alpine Hay.



Original Alpine Hay Mountain Hay Marguerites Moss Dark Green Moss Bright Green



INTERIOR WALL FILMS

WHITEBOARD FILMS

3M™ DI-NOCT™ DRY WIPE

Designed to transform any simple wall surface, divider panel or metal wall into a whiteboard or projection screen.

These polyester films are perfect for use in collaborative areas such as boardrooms, office spaces, and classroom environments. The range includes two adhesive whiteboard films, PWF-500, a matt finish suitable for both writing and projection and WH-111, a gloss finish suitable for writing only. The range also includes PWF-500MG, a magnetic film for writing and projection that is extremely portable and can be affixed to any magnetic surface.

Films in series: PWF-500, PWF-500MG, WH-111.

- Dyed Polyester
- 12 year durability
- Internal use
- 170-600 micron



VION DRY WIPE

VION Dry Wipe Films are perfect for transforming surfaces into an erasable board. Ideal for use in boardrooms, offices and educational environments. The range includes two films.

VION Whiteboard provides a white gloss finish and can be applied to smooth walls or glass surfaces. The regular and white back allows it to be applied to glass partitions without unwanted effects.

VION Clearboard is an ultra clear film for application to glass surfaces and is designed to preserve total clarity and transparency.

Films in series: VION Whiteboard, VION Clearboard.

- Non-PVC Polymer
- 12 year durability
- Internal, external use
- 90 micron





MAXIMISING SPACES WITH ARCHITECTURAL FINISHES

Architectural film is the ultimate facility solution. Resurface existing substrates to create high-quality, low-cost transformations. From walls, to cupboards, to reception desks, to structural columns and much, much more.

Hyper realistic finishes and textures replicate the look and feel of woods, stones, metals, marbles and concretes, not to mention solid colour and glitter collections. Films for 2D and 3D applications make these films the perfect blend of form and function! The design possibilities are truly endless with architectural finishes.

ARCHITECTURAL FILMS

3M DI-NOC

DI-NOC is a flexible PVC covering designed to realistically recreate the look and texture of natural, more expensive materials to wrap interior surface.

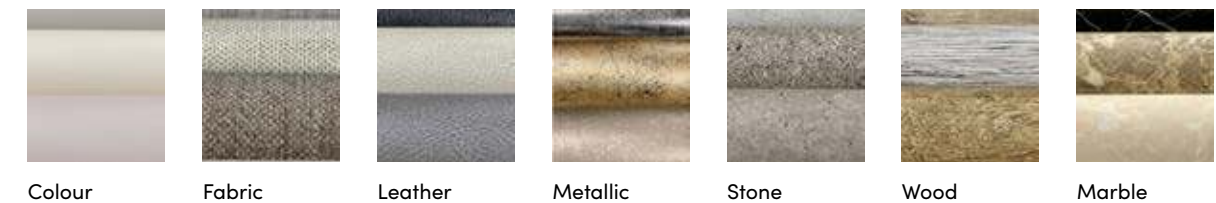
Our Trend Line includes the most in demand patterns, in stock, available by the metre.

The wider range includes 1000+ additional patterns including metallic, fabrics, flip colours, wood, leather, carbon and single colour for decoration and refurbishment.

DI-NOC films are easy to apply and remove; most offer Comply adhesive for bubble free application. The film is tested according to European standard fire classification EN13501-1

- Cast-PVC
- 12 year durability
- Internal use (External Series available)
- 210-220 micron

Pattern collections:



COVER STYL'

Cover Styl' is a range of architectural films designed to realistically recreate the look of natural more expensive materials. Cover Styl' incorporates hundreds of patterns, all in stock and available by the metre.

The extensive range has many patterns including wood, solid colours, metallic, glitter, fabric, natural stone and leather patterns for decoration and refurbishment.

The flexible films are easy to apply, facilitating a perfect application on any furniture contour or shape. The film is rated A+ on VOC tests (indoor emissions), as well as being UV and fire resistant.

- Cast or Polymeric Calendered PVC
- 10 year durability
- Internal use
- 200-350 micron

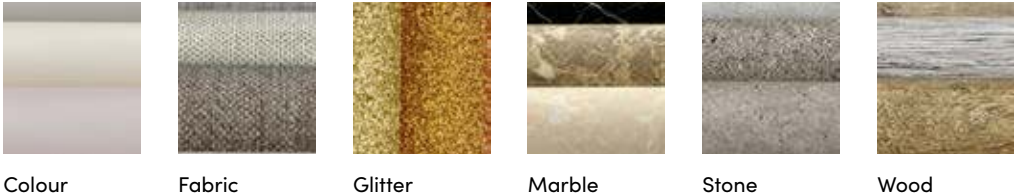
Pattern collections:



VION DÉCOR INTERIOR FILMS

The new VION Décor Interior Film range is suitable for use on walls, doors, cupboards, tables or other furniture. Ideal for redecoration of interior surfaces in a choice of 25 colours and finishes. Recommended application onto flat or slightly curved surfaces only.

Pattern collections:



- Polymeric calendered PVC
- 5 year durability
- Internal use
- 180-300 micron

DECAL ALL DÉCOR 2D – PVC FREE

A range of textured non-PVC architectural films. These polypropylene (PP) films have a unique formulation, free from halogen, plasticizers and formaldehyde components, perfect for applications where sustainability is key. Produced using an abrasion and scratch resistant transparent thermoset varnish topcoat and primer adhesive for easy application.

Suitable for application to interior flat and simple curved surfaces such as ceilings, walls, doors, furniture and other design elements, in area that require a balance between durability and advanced design.

Pattern collections:



- Polypropylene
- 10 year durability
- Internal use
- 166 micron



LX HAUSYS BENIF

LX Hausys BENIF is a range of architectural films that are designed to bring inspiring solutions to interior spaces within residential and commercial properties.

The budget-friendly range consists of 475 unique patterns, finishes include Solid Colours, Metal, Marble & Stone, Leather & Fabric, and Wood Grains.

These easy-to-install films feature an air-release liner allowing for quicker and bubble-free applications.

Pattern collections:



- Polyethylene Film
- 10 year durability
- Internal use
- 150-380 micron





MAXIMISING SPACES WITH FLOOR FILMS

Should a space not lend itself to a wall graphic, why not utilise the floor space?

With a choice of film finishes, durabilities and options for a variety of flooring types, floor graphics can be the perfect solution for directional, instructional and promotional graphics.

Get clever with perspective in your design to really take your graphic to another level!

FLOOR FILMS

AVERY DENNISON MPI 6021 ANTI-SLIP FLOOR MARKING

Utilise floor space and create standout, short-term promotional graphics with this easy to apply anti-slip floor marking film. Designed for relatively smooth and flat indoor surfaces, it is ideal for point of sale promotional spaces, exhibition halls and wayfinding purposes.

It offers a directly printable surface which does not require an overlamine, yet still maintains all its anti-slip properties, and features a high performance, removable adhesive for clean removability. Complete with fire certification.

Films available: MPI6021.

- Monomeric Calendered PVC
- 1 month durability
- Internal use
- 200 micron



3M™ SCOTCHCAL™ GRAPHIC FILM SERIES IJ20

A white monomeric calendered film for short-term interior floor graphics. It has a removable, clear, waterbased, pressure sensitive adhesive.

Available in white and transparent. Good resistance to dirt and wear from high foot traffic once laminated with 3649 overlamine.

The transparent nature of the film allows the production of effective 3D graphics.

Kits available: IJ20-10R/3649, IJ20-114R/3649.

- Monomeric Calendered PVC
- 30 day durability
- Internal use
- 75 micron



3M™ SCOTCHCAL™ GRAPHIC FILM 3662

A white cast film with a removable, grey pigmented, repositionable adhesive for exterior graphics on floors. Good resistance to dirt and wear from high foot traffic once laminated with 3647 overlamine. Suitable for use on unsealed, exterior, pedestrian surfaces.

Kits available: 3662-10/3647.

- Cast PVC
- 3 month durability
- External use
- 50 micron



VERY DENNISON MPI 3001

Gloss white, self-adhesive monomeric calendered vinyls, with an R9 slip rating, suitable for applications on interior floor spaces. These products offer great resistance to dirt and wear from foot traffic when used with DOL5900 overlamine. Suitable for multiple printer types including; hard solvent, eco/mild solvent, UV-curing or latex inks.

Kits available: MPI3001 HOP/DOL5900.

- Monomeric Calendered PVC
- 6 month durability
- Interior use
- 80-95 micron (base only)

ARLON DPF 8000/3420G/M

A highly versatile film suitable for internal floor graphics when used in conjunction with the polymeric, 3420 gloss or matt overlamine.

This six month film, available in white and clear, is EN rated and warranted for use on carpet.

- Polymeric Calendered PVC
- 6 month durability
- Internal use
- 50-90 micron



VERY DENNISON MPI 2001

9 month, gloss white, self-adhesive polymeric calendered vinyls with an R 10 slip rating, suitable for interior floor graphics.

These products offer great resistance to dirt and wear from foot traffic when used with DOL 6000 overlamine. They are suitable for multiple printer types including; latex, solvent, eco-solvent and UV curable inkjet.

Kits available: MPI2001 HOP/DOL 6000.

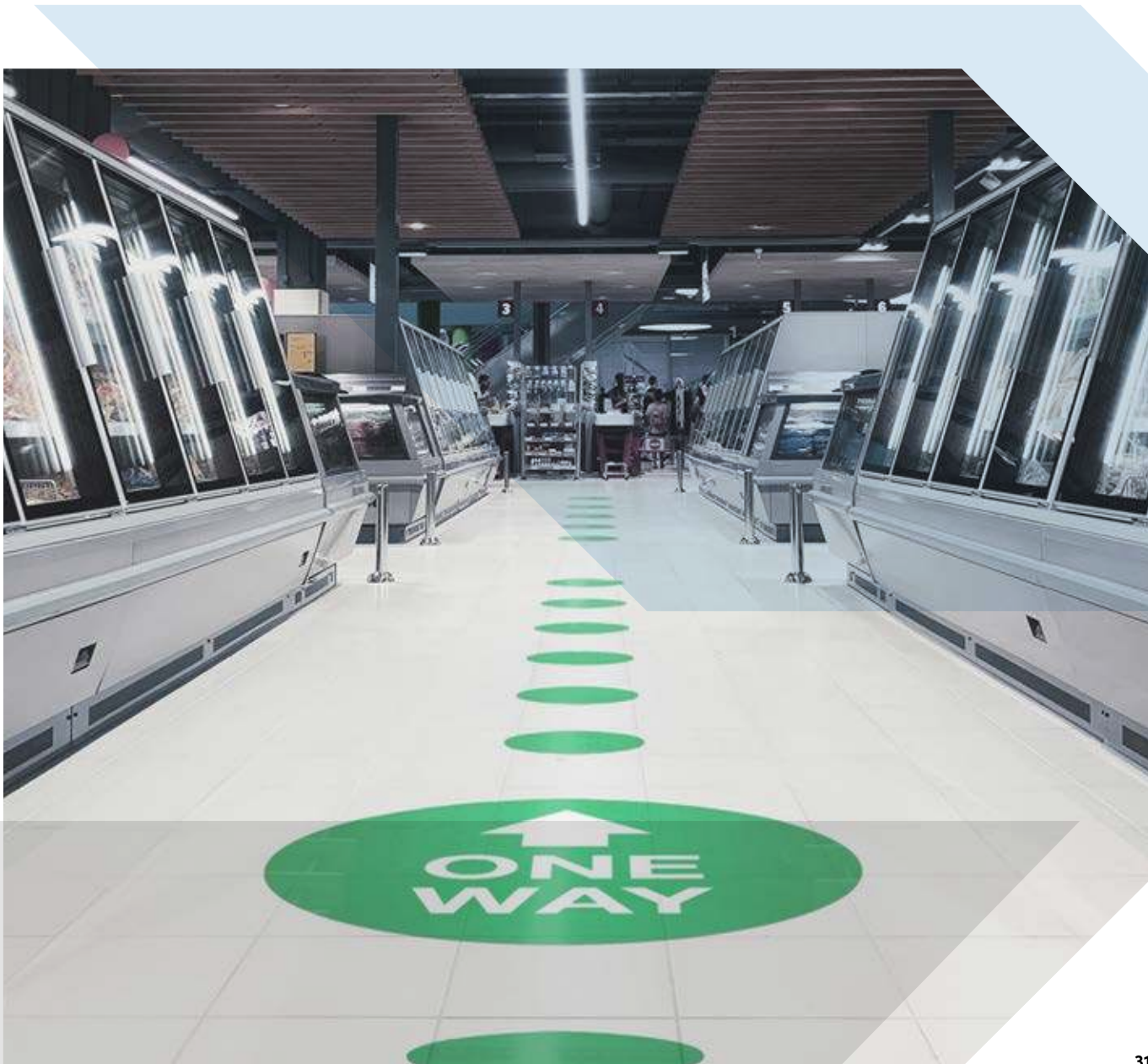
- Polymeric Calendered PVC
- 9 month durability
- Internal use
- 80 micron (base only)

3M™ SCOTCHCAL™ GRAPHIC FILM SERIES IJ40

A polymeric calendered white digital printing kit with a removable, grey pigmented, repositionable adhesive for easy application on interior floors. Good resistance to dirt and wear from high foot traffic when laminated with 3645 overlamine.

Kits available: IJ40-10R/3645.

- Polymeric Calendered PVC
- 1 year durability
- Internal use
- 75 micron





GLASS FINISHES CLEAR FILMS

AVERY DENISON SF 100 ULTRA CLEAR FILM SERIES

This ultra clear, removable window film with a high gloss finish is ideal for creating retail, office, POP and exhibition window graphics.

SF 100 Series uses super clear film and adhesive that allows full window coverage with the unprinted area maintains glass clarity without the need to cut around the image – installation is fast and easy. Suitable for UV and latex printing.

Films in series: SF 100.

- High gloss polyester
- 2 year durability
- Internal, external use
- 51 micron



CONTRA VISION ULTRA CLEAR

Contra Vision Ultra Clear is an optically clear unperforated window film suitable for UV digital printing. The product allows brands to create graphics which can be seen inside and out.

The product is typically used for see-through graphics and also 'see around' graphics, which partially block out areas of the window.

Films in series: CL50YYR, CL50YYs.

- Unperforated optically clear PET film
- 2 year durability
- External use
- 50 micron



3M™ SCOTCHCAL™ CLEAR VIEW SERIES 8150

A highly transparent printable cast film for glass applications. Unprinted areas allow perfectly clear view through the glass. Images with sophisticated details don't need contour cutting.

The film enables printing of special effects like dusted/frosted by using white ink, or one-way-vision effect without using punched films. Up to 7 years durability.

Films in series: 8150.

- Cast-PVC
- 7 year durability
- Internal, external use
- 50 micron

Glass finishes are perfect for privacy and decorative applications on glass and windows.

The ideal solution to give a touch of elegance and originality to the glass surfaces of commercial buildings, shops, restaurants, offices, hotels, wellness and spas.



GLASS FINISHES ETCHED FILMS

ARLON 5400 ETCHED GLASS SERIES

A satin, polymeric calendered 80 micron translucent film with clear, permanent, pressure sensitive adhesive. Available in silver and sparkle etch effects, the films are designed for interior and exterior applications.

Ideal for increasing the visual impact of windows, doors and partitions, while providing privacy. They are also suitable for creating complex designs or lettering.

Films in series: 5400 Silver Etch, 5400 Sparkle Etch.

- Polymeric Calendered PVC
- 2-5 year durability
- Internal, external use
- 80 micron

ARLON DPF 5450X ETCHED GLASS SERIES

A cost effective polymeric calendered etched glass vinyl offers excellent opportunities in decoration and design on a variety of glass surfaces, both indoors and outdoors.

The air channels of the X-Scape technology enable smooth repositionability of the graphics, counting rapid and bubble-free installations. The dry application process results in a faster and cleaner process.

Suitable for application on to doors, glass, mirrors, partitions and displays.

Films in series: DPF5450X.

- Polymeric Calendered
- 3 year outdoor durability
- Internal, external durability
- 80 micron



3M™ SCOTCHCAL SERIES 5525-300

A matt, polymeric calendered, translucent window film with a clear, permanent, pressure sensitive adhesive. Available in etch and sandblast effects, with optional Comply air release adhesive for fast, dry and bubble-free application.

These films are designed for interior applications. They increase the visual impact of windows, doors and partitions while providing privacy. They can also be used to create complex designed graphics and or lettering.

Films in series: 5525-314 Clear Haze, 5525-324 Clear Sandblast, 5525C-314 Clear Haze Comply, 5525C-324 Clear Sandblast Comply.

- Polymeric Calendered PVC
- 3-5 year durability
- Internal use
- 75-80 micron

3M™ SCOTCHCAL SERIES 7725SE-300

A matt, cast translucent film with clear, permanent, pressure sensitive adhesive. Available in dusted and frosted crystal colours.

These films are designed for interior and exterior applications. They increase the visual impact of your windows, doors and partitions while providing privacy. They can also be used to create complex designs or lettering.

Films in series: 7725SE-314 Clear Dusted Crystal, 7725SE-324 Clear Frosted Crystal, 7725SE-323 Rose Frosted Crystal, 7725SE-326 Mint Frosted Crystal, 7725SE-327 Light Blue Mist Crystal, 7725SE-331 Light Gold Crystal.

- Cast PVC
- 4-5 year durability
- Internal, external use
- 50 micron



GLASS FINISHES ETCHED FILMS

AVERY DENNISON CALENDERED CRYSTAL FILM

A polymeric calendered etch window film suitable for decorative and functional graphics on glass windows and screens, doors and mirror. These films can also be used on other transparent media, like acrylic and polycarbonate sheets.

Dusted and Crystal Glass films are recommended for use on flat and smooth surfaces, both internal and out.

Films in series: 659-000-1 Crystal Glass-Easy Apply, 352-000-1 Crystal Glass, 660-000-1 Dusted Glass-Easy Apply, 104-000-1 Dusted Glass-Easy Apply RS, 937-000-1 Dusted Glass.

- Polymeric Calendered PVC
- 5 year durability (external)
- Internal, external use
- 80 micron

VION CRYSTAL 5500 SERIES

A polymeric calendered etch, crystal window film with a permanent pressure sensitive adhesive. Suitable for a wide range of internal decorative window applications on flat and slightly curved surfaces, both inside and out. Features a PE coated liner and clean face film to give exceptional print finish.

Films in series: VC5500-20.

- Polymeric Calendered PVC
- 5-7 year durability (unprinted)
- Internal, external use
- 100 micron

AVERY DENNISON CAST CRYSTAL FILM

Avery Dennison Etched Glass Window Film is a cast, 60 micron film especially developed for computer-aided signmaking systems for decorative and functional graphics on glass windows and screens, doors and mirrors.

Films in series: 276-000-1 Etched Glass, 283-000-1 Frosted Glass.

- Cast PVC
- Internal, external use
- 7 year durability (external)
- 60 micron



GLASS FINISHES PATTERN COLLECTIONS

VION REEDED GLASS

VION Reeded Glass provides a luxurious and stylish effect, similar to fluted glass but at a fraction of the price.

In addition to its decorative effect, it also has the added benefit of providing privacy to building occupants, obscuring visibility whilst still allowing excellent light transmission.

Reeded Glass is ideal for interior glass applications where style and privacy combine, examples of application types include restaurant booth dividers, kitchen cupboards, and office window partitions.

- Polyester Film
- 5 year durability
- Internal use
- 50 micron



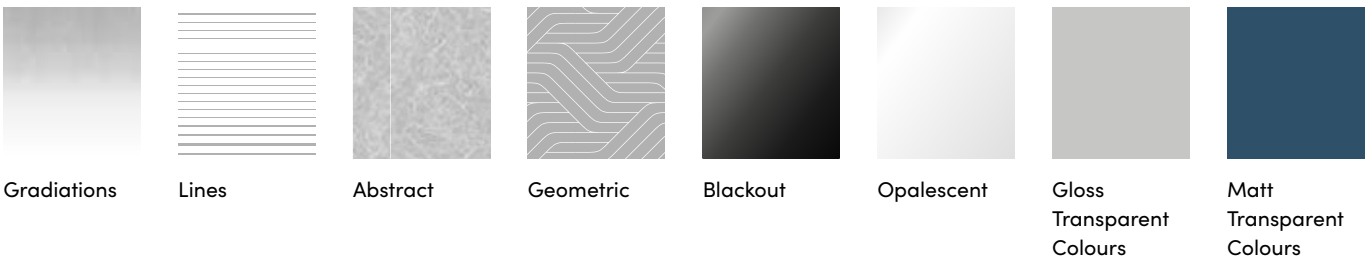
VION DÉCOR WINDOW FILMS

The VION Décor range of 80+ window films can be used to provide privacy and stylish design to internal glass. With pre-cut designs on a roll, decorating windows and partitions has never been as easy.

The Décor collection includes gradation, lines, geometric or abstract patterns as well as blackout, opalescent, gloss and matt transparent colours.

Films in this range have M1 fire classification.

- Polyester PVC-Free
- 5 year durability
- Internal use
- 40 micron



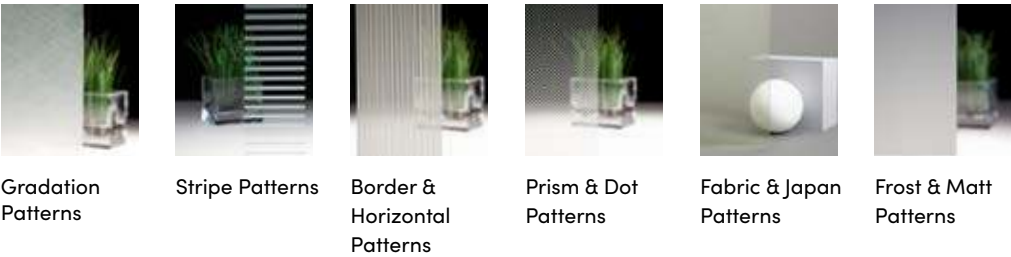
3M™ FASARA DECORATIVE WINDOW FILMS

A matt, polyester translucent film with a clear, permanent, pressure sensitive adhesive. Available in more than 100 unique, pre-cut patterns including acid etched, sandblast, stippled, rice paper, geometric designs, stripes, dots and graduations.

3M Fasara Decorative Glass Films are a versatile, high-style, low-cost option for enhancing design and privacy on glass surfaces. Perfect for privacy, decorative and architectural applications, blocking 99%+ of UV to prevent fading.

Films in this range are fire classification B-s1-d0.

- Polyester
- 4-10 year durability
- Internal use
- 75-153 micron



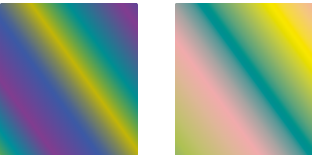
GLASS FINISHES SPECIALITY FILMS

VION DICHROIC FILM

A new PVC-free decorative window film, VION Dichroic Film is designed to create colour shifting effects on interior glass panels. Available in both Ambience Glow and Ambience Glacial colour variants, the product enriches seasonal elements, making it relevant at all times of the year.

Suitable for a wide range of internal application on flat and slightly curved surfaces, it is ideal for decorative purposes in retail, exhibition and hospitality areas. A tough, abrasion resistant top coat protects against scratching and blocks 90% of UV to prevent fading. REACH RoHS compliant.

Films in series: [Ambience Glow](#), [Ambience Glacial](#).



Ambience
Glacial

Ambience
Glow

- Polyester PVC-Free
- 3-5 year durability
- Internal use
- 55 micron



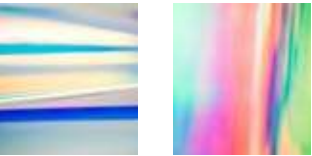
3M™ DICHROIC GLASS FINISHES

Dichroic finishes combine beauty, light and colour with extraordinary 3M technology into dramatic interior visual design accents. Blocking 97% of UV these films can help prevent fading. Plus, a tough abrasion resistant top coat to protect against scratching.

The colour shift can be viewed from both sides of the glass and changes as the observer moves and with different light conditions. DF-PA Chill shifts between cool tones of blue/magenta/yellow and gold/blue; and DF-PA Blaze shifts between warm tone of cyan/blue/magenta/yellow and red/gold.

Fire classification B-s1-d0.

Films in series: [DF-PA Chill](#), [DF-PA Blaze](#).



Chill

Blaze

- Polyester PVC-Free
- 3-7 year durability
- Internal use
- 112-117 micron



SQUID

Squid is a self-adhesive, transparent fabric which enables you to see out during the day, but largely restricts people outside from being able to look in. Squid helps to retain privacy, views and natural light. This is unlike frosted film, which blocks your natural light and stops you from seeing through at all.

Coated with an anti-bacterial treatment, these films are ideal for use in the healthcare sector. B1 / M1 fire classification (B-s1-d0)

Films in this range have M1 fire classification.

- PES polyester self-adhesive fabric
- 5 year durability
- Interior use
- 300 micron



Ash

Bone

Chalk

Coal

Oak

Rock

ORGANOID NATURAL SURFACES

See, feel, and smell the environment around you with Avery Dennison Organoid, a natural surfaces finish designed to create unique interior decoration.

A three-dimensional product, you're able to feel the structure of natural materials and smell the fragrance of the desired experience.

Using 100% natural face materials, this PVC-free film is available in three semi transparent patterns which are suitable for glass surfaces.

- PVC-free film using natural materials
- Up to 5 years durability
- Internal use



Sunflower
Petals

Skellet Leaves

Rose Petals



GLASS FINISHES

ONE WAY VISION WINDOW FILMS



Perforated Window films provide high impact graphics from the outside viewpoint whilst retaining through-vision from the inside out.

Films are generally available in a range of transparencies, from 20% for maximum image impact to 50% for maximum through-vision. HD films provide both a high definition image and superb through-vision.

Perforated Window films are ideal for vehicles such as buses, retail graphics and building wraps.

CONTRA VISION CAMPAIGN

Contra Vision's standard product range retains many of the high-quality features of the Premium range at very competitive prices, making it the perfect choice for short-term promotional campaigns.

Campaign films feature a Grayliner™, to allow printed images on the liner that will closely resemble the way the graphic will look on a typical window or panel. An exclusive adhesive allows for quick and trouble-free application and removal.

Campaign white on black, applied externally, is available in a 20%, 30% and 40% transparency.

Whilst Campaign Clear, designed for inside application see-through graphics, is available in 30% transparency. This enables cold weather fitting and are the ideal solution for installations with limited external access. The graphics are also protected from vandalism and street dirt. Please note these films require white ink.

Suitable for solvent, eco-solvent, latex and UV printers.

Films in series: [WBMAG20](#), [WBMAG30](#), [WBMAG40](#), [CLMAC30](#).

- **Monomeric Calendered PVC**
- **2 year durability**
- **External use**
- **150 micron**



CONTRA VISION PERFORMANCE

Contra Vision's premium product range, Performance features a Grayliner™, to allow printed images on the liner that will closely resemble the way the graphic will look on a typical window or panel.

The White on Black films are available in 20%, 30%, 40%, 50% and HD, giving the perfect transparency for all applications, from vehicle graphics to retail graphics and building wraps.

HD Performance features a ground-breaking perforation pattern, 1mm in diameter that delivers dazzling printed images in high definition. These micro perforations allow for greater detail and finer text and give a noticeably improved see-through compared to the standard 40% film.

Other films in the range include Translucent White, designed for night and day performance, creating illuminated, backlit, one-way vision graphics with extra 'pop' by night. Available in 30% and HD transparencies.

HD Clear is a new film to the range, designed for inside application see-through graphics. This enables cold weather fitting and are the ideal solution for installations with limited external access. The graphics are also protected from vandalism and street dirt. Please note these films require white ink.

Films in series: [WBMAG20](#), [WBMAG30](#), [WBMAG40](#), [WBMAG50](#), [WBPAG40 HD](#), [TWPAG30](#), [TWPAG40 HD](#), [CLPAC40 HD](#).

- **Polymeric Calendered PVC**
- **3 year durability**
- **External and Internal use**
- **180 micron**

AVERY DENNISON MPI 7000 PERFORATED WINDOW FILM SERIES

A perforated window film with an impressive release liner technology, these perforated materials deliver improved performance and streamlined film choice for every transparent substrate application. Films are available in 20%, 30%, 40%, 50% transparencies.

The new liner technology offers exceptional layflatness, resulting in easier conversion. Additionally, you can have a full view of the printed image while it is still laminated to the liner.

MPI 7000 Series has excellent outdoor durability, is dimensionally stable and offers high adhesion levels on glass substrates.

Films in series: [MPI 7401](#), [MPI 7301](#), [MPI 7201](#), [MPI 7101](#).

- **Polymeric Calendered PVC**
- **3 year durability**
- **External and Internal use**
- **180 micron**





WINDOW FILMS SECURITY FILMS



Windows are the weakest link in terms of the security of a building. Safety and Security Films can help to transform windows into a source of strength. These films have been created to help hold glass fragments together, reducing potential injury from flying glass, helping to form a much stronger barrier in severe weather conditions.



Protect against forced entry, theft, breakage to deter entry from buildings



Upgrade glass to meet safety standards for peace of mind



Protect people from flying glass within frame shatter retention



Protect from scratching, gouging and other vandalism

Ideal Applications: Schools, Universities, Colleges, Commercial Buildings, Shops, Government Buildings, retail.

3M™ SAFETY SERIES

- Maximum Protection
- Reduce Fading
- Discreet Appearance

A transparent weather stable film, designed to provide effective protection from injuries to persons or damage to items caused by fragments of broken glass. In the case of glass breakage, the fragments are held together by the film's strong acrylic adhesive. The film provides enhanced security, whilst also rejecting UV light, to reduce fading to fabrics and furnishings, complete with a scratch resistant coating.

Films in series: S40, S70, S80, S140, S40EXT, S70EXT.

- Polyester
- 5 year durability
- Internal, external use
- 100-350 micron

VION SAFETY SERIES

- Maximum Protection
- Reduce Fading
- Discreet Appearance
- Economy Option

Suitable for use on the inside or outside surface of windows to provide effective protection from injuries to persons in the event of an impact, explosion or fire. Available in a variety of thickness high optical quality polyester multi-layered films. In the case of glass breakage, the fragments are held together by the film's strong acrylic adhesive. The film provides enhanced security, protection from graffiti and vandalism whilst also rejecting UV light, to reduce fading to fabrics and furnishings.

Films in series: VWF Safety 4, VWF Safety 7, VWF Safety 8, VWF Safety 4 EXT, VWF Graffiti Safety 4.

- Polymeric Calendered PVC
- 5-7 year durability
- Internal, external use
- 120-240 micron

Maximise the efficiency of windows to create comfortable internal environments and save energy.

Plus, with a duty of care to employees and customers, window films can also increase safety and strengthen security in commercial spaces and workplaces.

- ✓ SAVE ENERGY
- ✓ INCREASE SAFETY
- ✓ IMPROVE COMFORT
- ✓ STRENGTHEN SECURITY

WINDOW FILMS PROTECTIVE FILMS



Protect people from flying glass in the event of an explosion



Upgrade glass to meet safety standards for peace of mind



Protect against forced entry, theft, breakage to deter entry from buildings



Keep glass fragments within the window frame to reduce potential injuries

Ideal Applications: Hospitals, Shopping Centres, Public Transport Buildings, Government Buildings, arenas, sports venues.

3M™ ULTRA SERIES

- Superior Blast Protection
- Premium Option
- Discreet Appearance

3M Ultra Series Window Films utilise up to 42 micro-layers to provide immense strength and tear resistance compared to standard films. In the event of glass breaking, the fragments are held on to the film by the strong acrylic adhesive system. The film delivers superior performance over standard polyester films in blasts and impacts, yet still maintains a high level of optical clarity.

- Polyester
- 10 year durability
- Internal use
- 160-200 micron

Films in series: S800.



WINDOW FILMS PRIVACY FILMS



Provides subtle privacy and enhances the work environment



Restricts viewing through glass



One way vision effect



For interior use only

Ideal Applications: Offices, Banks, Residential, Leisure

VION MIRROR PRIVACY SERIES

- Reduce Heat Gain
- Reduce Glare
- Maximum Privacy
- Reduce Fade
- Mirrored Appearance

Designed to reduce solar heat gain and problems with glare, VION One Way films ensures maximum daytime privacy, whilst also providing a modern appearance on building exteriors. The film also blocks 80-90% UVA and UVB rays which are the main cause of fading and skin damage.

Films in series: VWF Mirror Privacy 90%, VWF Mirror Privacy 80%.

- Polyester
- 10 year durability
- Internal use
- 40 micron

VION PRIVACY SERIES

- Reduce Glare
- Maximum Privacy
- Reduce Fade
- Discreet Appearance

These films provide maximum privacy and light with a 5 year durability, suitable for internal applications.

Whilst completely opalescent, the matt white film filters out most natural light creating subtle ambient lighting conditions. Opal privacy films are designed to provide maximum protection and privacy on internal glass.

Films in series: VWF Opal Privacy Film.

- Polyester
- 5 year durability
- Internal use
- 60 micron



WINDOW FILMS

PRIVACY FILMS

CONTRA VISION MIRRORED ONE-WAY PRIVACY SERIES

- Daytime Privacy
- Mirrored Appearance

A non-perforated mirrored window film, this material is ideal for both residential and commercial properties, providing privacy on both sides of the window, whilst still allowing natural daylight in to rooms. Shiny metallic look from outside but does not become mirror like at night inside the building.

Films in series: RT75CY.

- Polyester (PET), mirror
- 10 year durability
- Internal use
- 46 micron

CONTRA VISION FROSTED TWO-WAY PRIVACY SERIES

- Maximum Privacy
- Discreet Appearance

A frosted non-perforated window film, this material provides privacy on both sides of the window, whilst still allowing natural daylight into rooms. Ideal for bathrooms where 24/7 guaranteed privacy is essential.

Featuring a unique embossed texture, it is not your standard run of the mill frosted window film.

Films in series: CER100A.

- Embossed etch PVC
- 10 year durability (applied)
- Internal, external use
- 100 micron



CONTRA VISION WHITE PERFORATED PRIVACY SERIES

- Discreet Appearance
- Daytime Privacy

This Daytime Privacy Film is a micro-perforated product designed to block the view into buildings, whilst still allowing excellent see-through for occupants within.

Available in three variants, the HD options create a smoother see-through from the inside thanks to perforated holes which are 55% smaller in area when compared to the standard version.

Films in series: PRIV-WBPAG40 HD, PRIV-BWPRW40 HD, PRIV-WBPRG30, PRIVTWPAG40 HD, PRIV-TWPAG30.

- Polymeric Calendered PVC
- 3 year durability
- Internal, external use
- 150-180 micron

SOLAR SCREEN DATA JAMMER SERIES

- LCD And Plasma Screen Blackout
- Discreet Appearance

Create a blackout effect on LCD or Plasma screens while preserving a perfect view through the glass with this polarizing film. Ideal for glass partitions and doors in office environments.

Films in series: Data Jammer.

- Polarizing
- 5 year warranty
- 132 micron



WINDOW FILMS

SUN CONTROL FILMS



Windows allow views and natural light into a building, however sunlight also causes negative effects. The sun also generates excessive heat, causing fading to valuable furnishings and containing harmful UV rays.

Using Sun Control Window Films allows you to welcome in the light, but without the negatives of excess heat and UV damage, all without changing the look of your building.

Ideal Applications: Hotels, Retail, Commercial Buildings, Residential, Offices, Museums.

- Reduce solar heat gain to reduce energy consumption and costs.
- Reduce glare to increase comfort.
- Reject UV light to reduce colour fading of goods.
- Insulation for energy conservation.
- Option to alter or retain appearance

3M™ NEUTRAL SERIES

- Reduce Heat Gain
- Reduce Fade
- Discreet Appearance

3M Neutral Series films provide heat rejection to help produce energy savings and improve comfort in a room. They can be used on the exterior surface of a window.

Metallised technology blocks a significant amount of the sun's ultraviolet (UV) rays that cause interiors to fade, while allowing for optical clarity. These films reduce solar heat gain and air conditioning costs.

Films in series: Neutral 35 Ext, Neutral 35, Neutral 70.

- Metallised Polyester
- 5 year
- Internal and external use
- 31-50 micron



3M™ SILVER SERIES

- Reduce Heat Gain
- Reduce Fade
- Reduce Glare

3M Silver Series reduces glare and provides good sun control, protecting buildings from heat gain. Designed for use on the interior surface of windows, it's metalized technology rejects heat and excess light to reduce glare.

The reflective film construction gives buildings a fresh and modern appearance and, depending on lighting conditions, increased privacy. A lot of damaging UV rays are blocked too which stops fabrics and furnishing from fading.

Heat gain is significantly reduced creating a comfortable environment as well as helping to reduce energy costs

Films in series: Silver 15 Ext, Silver 15 Plastic, Silver 20, Silver 35 Ext.

- Metallised Polyester
- 10 year
- Internal use
- 63 micron

3M™ PRESTIGE SERIES

- Reduce Heat Gain
- Reduce Fading
- Blast Protection
- Discreet Appearance

3M Prestige Series provides the best balance between maximum light transmission and heat rejection, making them ideal to protect homes and offices from heat gain through windows and glazed doors.

Prestige reduces injury risk from flying broken glass whilst also blocking up to 99.9% of damaging UV rays to reduce fading in fabrics and furnishings. These films contain no metals so won't interior with mobile phones, GPS and satellite radio signals. They keep you cool and comfortable whilst inside.

Both internal and external application films exist in the range.

Films in series: PR70, PR40 Ext, PR70 Ext, PR90 Ext, PR20 Ext.

- Multi-layered PET/PMMA
- Over 10 year durability
- Internal, external use
- 58-62 micron

3M™ NIGHT VISION SERIES

- Reduce Heat Gain
- Reduce Fading
- Blast Protection
- Daytime Privacy Versions

Night Vision films help block the sun's damaging UV rays and control heat and glare.

Let natural light into your space by day and, with low interior reflectivity, still enjoy the view out at night. Medium to dark versions of this film also provide daytime privacy.

The films contain no metals, so they don't interfere with phone signals.

Films in series: Night Vision 15, Night Vision 25, Night Vision 35.

- Polyester
- 12 year durability
- Internal use
- 63 micron



WINDOW FILMS

SUN CONTROL FILMS

3M™ NICKEL SERIES

- Reduce Heat Gain
- Reduce Glare
- Reduce Fade
- Blast Protection

3M's Nickel Series is designed for use on the interior surface of windows. It's metalised technology reflects the sun's rays while allowing optical clarity to be maintained and rejects excess light to reduce glare.

The films can significantly reduce heat gain and create a comfortable environment, especially in warmer months, as well as helping to reduce the workload of air conditioners and save energy costs.

Films in series: Nickel 50.

- Polyester
- 10 year durability
- Internal use
- 56 micron

VION SILVER COLOUR SERIES

- Reduce Heat Gain
- Reduce Glare
- Daytime Privacy
- Reduce Fade
- Coloured Appearance

A premium polyester coloured metallic mirror window film. For interior application on windows to reflect 80% of the sun's rays and resolve solar heat gain. The film rejects excess light to reduce glare.

The film also blocks almost the entire amount of UVA and UVB rays which are the main cause of fading and skin damage. The reflective films ensures daytime privacy, whilst creating a gold, bronze, green or blue silver coloured appearance on the building exterior.

Films in series: VWF Gold/Silver 20, VWF Green/Silver 20, VWF Blue/Silver 20, VWF Bronze/Silver 20.

- Metallised Polyester
- 10 year durability
- Internal and external use
- 50 micron

VION SILVER ECO SERIES

- Reduce Heat Gain
- Reduce Glare
- Daytime Privacy
- Reduce Fade
- Economy Option

An economy polyester metallic mirror window film, available in interior and exterior options.

The film rejects excess light to reduce glare and blocks 70-80% of UVA and UVB rays which are the main cause of fading and skin damage. The silver reflective film resolves solar heat gain and ensures daytime privacy, whilst creating a modern appearance on the building exterior.

Films in series: VWF Silver 20 Eco, VWF Silver 30 Eco, VWF Silver 20 Eco Ext.



VION SILVER PREMIUM SERIES

- Reduce Heat Gain
- Reduce Glare
- Daytime Privacy
- Reduce Fade
- Premium Option

A premium polyester metallic mirror window film with 12 year durability. Available in interior and exterior options for windows to reflect 50-80% of the sun's rays and resolve solar heat gain. The film rejects excess light to reduce glare.

The film also blocks almost the entire amount of UVA and UVB rays which are the main cause of fading and skin damage. The silver reflective film ensures daytime privacy, whilst creating a modern appearance on the building exterior.

Films in series: VWF Silver 50 Premium 50% VLT, VWF Silver 30 Premium 30% VLT, VWF Silver 20 Premium 20% VLT, VWF Silver 20 Premium Ext 20% VLT, VWF Silver 30 Premium Ext 30% VLT.

- Metallised Polyester
- 12 year durability
- Internal/ external use
- 50-60 micron

VION NEUTRAL SERIES

- Reduce Heat Gain
- Reduce Glare
- Daytime Privacy
- Reduce Fade
- Discreet Appearance

A premium polyester neutral window film for interior application on windows in a variety of light levels, from dark, medium and light to resolve solar heat gain and glare issues. The neutral tint continues to allow some natural light transmission to offer a discreet solution, with only a touch of colour to the building appearance. The film also blocks almost the entire amount of UVA and UVB rays which are the main cause of fading and skin damage.

Films in series: VWF Neutral 25 Dark, VWF Neutral 35 Medium, VWF Neutral 50 Light.

- Metallised Polyester
- 10 year durability
- Internal use
- 50-60 micron

VION TOTAL UV SERIES

- Absorbs UV Rays
- Absorbs Sunlight
- Reduce Fade
- Retail Displays
- Discreet Appearance

A 50 micron polyester UV protection window film for interior application to absorb ultraviolet rays, through sunlight in order to reduce discoloration and fade. Perfect for use within retail displays or any areas exposed to sunlight, where the highest fade protection is required. The film blocks light up to 420nm meaning it offers the highest protection against fade from UV light alone.

Films in series: VWF Total UV 400.

- Metallised Polyester
- 10 year durability
- Internal use
- 50 micron



3M ALL SEASONS SERIES

- Rejects UV Rays
- Reduce Fade
- Reduce Heat Gain
- Reduce Glare
- Insulates In Cold Weather

A range of amber and silver coloured window films designed for use on the interior surface of windows.

These low energy solar and insulating films combine sun protection in summer, by reducing solar heat gain, and provide insulation in winter, by reducing heat loss, contributing to significant energy cost savings. Metalised technology reflects the sun's rays while allowing optical clarity.

Films in series: ASA 35, ASS 20.

- Metallised Polyester
- Internal use
- Up to 10 year durability
- 45 micron

VION INSULATION SERIES

- Reduce Heat Gain
- Reduce Heat Loss
- Save Money

A 50 micron polyester solar insulation window film with 6 year durability. For interior application on windows to reduce solar heat gain by around 82%, whilst providing protection against heat loss in winter by 34%.

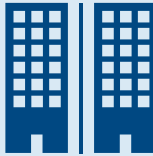
These films retain heat inside a building as well as reject energy from the sun coming in, to increase insulation performance by 40%. Good heat rejection provides additional comfort and energy savings in the summer months. VION Insulation Series can therefore save you money on heating and air conditioning costs once installed.

Films in series: VWF Insulation 20 20% VLT, VWF Insulation 50 50% VLT.

- Polyester
- Up to 6 year durability
- Internal use
- 40-50 micron



WINDOW FILMS COMBINATION FILMS



If your application has several issues to resolve a combination film could be the perfect fit.

3M™ ULTRA PRESTIGE

- Reduce Heat Gain
- Reduce Glare
- Reduce Fading
- Blast Protection
- Discreet Appearance

The ultimate window film, designed for use on the inside surface of windows. The film has a unique multi-layer construction to provide 32 times more resistance to tearing than other safety films, reducing injury risk from flying glass.

The films also feature a high visual light transmission offering high heat reduction, whilst also rejects UV light to reduce fading to fabrics and furnishings.

Prestige films contain no metals, therefore cause no interference with phone signals.

Films in series: Ultra PR S70.

- Metallised Polyester
- 15 year durability
- Internal Use
- 150 micron

3M™ SAFETY SILVER SERIES

- Reduce Fading
- Reduce Heat Gain
- Blast Protection

Designed for use on the inside surface of windows. The film has a single layer construction coated with a strong adhesive and a metalized layer for sun protection.

In the case of glass breakage the fragments are held together by the strong acrylic adhesive. The film provides enhanced security whilst also rejecting UV light to reduce fading to fabrics and furnishings.

Films in series: Silver S420.

- Metallised Polyester
- 10 year durability
- Internal use
- 125 micron

VION COMBINATION SERIES

- Reduce Heat Gain
- Reduce Glare
- Maximum Protection
- Discreet Appearance
- Vandalism Resistance

A polyester safety and solar combination window film for interior application on windows to reduce solar heat gain by up to 75%, whilst providing protection against glass breakage in the event of impact. In the case of glass breakage, the fragments are held together by the film's strong acrylic adhesive.

The film provides enhanced security, protection from graffiti and vandalism whilst also rejecting UV light, to reduce fading to fabrics and furnishings.

Films in series: VWF Neutral 35 Combi 4.

- Optical Polyester
- 5 year durability
- Internal use
- 125 micron



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