



Printing and Graphics  
Product Guide

# Scapa Group

## Who we are

Scapa is a worldwide, leading manufacturer, of bonding solutions and adhesive components for applications in the medical, electronics, industrial and transportation markets.

## What we do

We help medical, industrial, electronics and transportation customers create better products by providing adhesive solutions and components. We design our offering around the requirements of global OEMs, distributors and consumers.

## **Scapa is a market leading developer and manufacturer of bonding materials and solutions.**

Our products are used extensively in a wide range of markets around the world. The applications range from plasters for minor cuts to optically clear adhesives in the latest smart phone.

Our focus is to work with our customers to develop application-specific solutions for complex applications, which are continuously evolving.

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## Experienced printing partner

Scapa is a leading supplier of adhesive tapes and films for the printing and graphics industry. Our tapes help to achieve superior printing results even at higher machine speeds and during longer print runs.

The latest generation of printing machines, with their modern digital plate technologies, allows printers to achieve superior printing results at much higher speeds than in the past. This has in turn set new standards for plate mounting tapes. The tapes are designed to ensure that no plate lifting occurs at elevated machine speeds.

Within the printing & graphics industry, we have developed highly specialised adhesive tapes to enable printers to achieve the quality printing results that their customers insist upon and which are so vital to the flexible packaging markets.

With over 90 years of experience in adhesive tapes production, Scapa offers high technology adhesive solutions for all types of printing needs. Additionally, approaching 20 years of working with flexible packaging leaders in the manufacturing of filmic packaging, labels and corrugated paper, we are experienced in working together to find the best solution for your own specific needs.

Scapa offers a wide range of options within our tape products to cover print types, speeds, cylinder sizes and print plate types. We have been increasingly successful with our new technologically advanced Exafit®, Hardmount, and Complementary ranges.

### Excellent printing results and efficient printing process

- Scapa tapes reliably secure the mounting plates during the printing process, allowing for high quality image reproduction, even, over long print runs.
- Easy mounting, repositioning and de-mounting enables an efficient and fast print process with minimal set up time.
- The superior thickness consistency allows for faultless ink distribution and perfect dot balance to guarantee excellent printing results.
- The tapes can be removed in one piece after the print run leaving even the thinnest plates undamaged and secure with no residue.

Scapa's adhesive formulation ensures great resistance to solvents and chemicals which are used in the printing industry.



## Scapa Exafit®

### High performance flexographic tapes for the printing and graphics industry

In today's evolving flexographic market, plates are becoming increasingly thinner and more rigid to improve dot definition and ink transfer. To adapt to these requirements, Scapa has developed a range of compressible foam products that offer different levels of hardness and adherence on the plate side.

Through the use of the right Scapa Exafit® products, printing plates can be mounted smoothly, repositioned easily, and removed simply, all without residue after demounting.

The Scapa Exafit® range is one of the softest available on the market and remains so even at elevated speeds.

#### Exafit® - product thickness

Key products in the range are produced in 430µm and 550µm thickness levels, as those are most common in the print market. Within these two thickness levels printers can choose between different foam hardness and adhesion levels on the plate side.

Consistent thickness across the product width ensures great print results on long runs at elevated machine speeds.

#### Exafit® - different product hardness

Our products are available in three foam hardness levels depending on the print job.

For the finest results in very demanding halftone printing, Exafit® offers soft, pink foam for best results. For solid print types we recommend our blue range of foams which are harder and ensure better ink transfer.

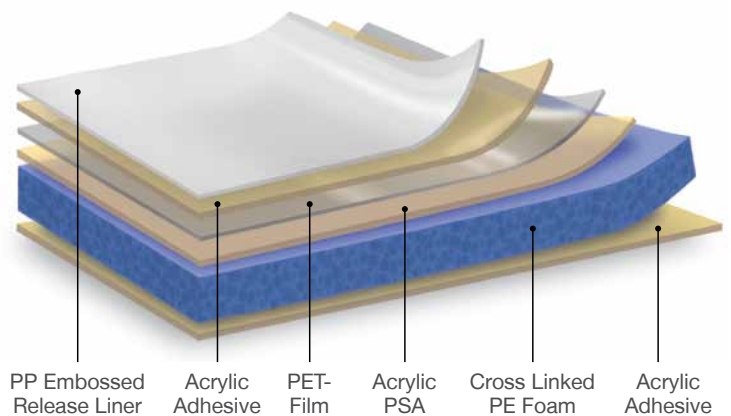
We can also offer medium hard (white foam) tapes for a combination of halftone and block print.

#### Exafit® - adhesive technology

Exafit® products use specialist adhesive technology on both sides. This allows strong contact to be maintained between the tape and the plate during the printing process. Scapa's acrylic adhesives used on our Exafit® range, also have the added benefit of providing great solvent and chemical resistance.

Different levels of adhesion on the plate side ensure that we have the right products for all types of plates.

Scapa tapes can also be tailored to meet individual customer needs.



# Scapa Exafit® Range

## Double sided PE foam 380µm series

Product	Hardness / Colour	Characteristics	Thickness (mm)	Adhesive (both sides)	*Peel Adhesion (N/25mm)	Temp. Resistance	Plate Type	Application
43100	Soft / Pink	Standard adhesion on the plate side. Clean removal. PP embossed release liner to reduce air entrapment.	0.43	Acrylic	Cylinder side 4 Cliché side 7	max + 70°C	Photo-polymer	Pure half tone printing. Medium to large diameter cylinders or sleeves. Ideal for longer print runs in flexible packaging.
43101		Higher adhesion and tack on the plate side. Cohesive adhesive for residue free demounting and clean removal. PP embossed release liner to reduce air entrapment.			Cylinder side 4 Cliché side 10.3			Pure half tone printing. Small to medium diameter cylinders or sleeves. Ideal for longer print runs for label printing.
43120	Standard adhesion on the plate side. Clean removal. PP embossed release liner to reduce air entrapment.	Cylinder side 4 Cliché side 7			Superior half tone and combined printing. Medium to large diameter cylinders or sleeves. Ideal for longer print runs in flexible packaging and label markets.			
43121	Medium / White	Higher adhesion and tack on the plate side. Cohesive adhesive for residue free demounting and clean removal. PP embossed release liner to reduce air entrapment.			Cylinder side 4 Cliché side 10.3		Photo-polymer / Rubber	Half tone and block printing, or a combination of both. Small diameter cylinders or sleeves. Ideal for long print runs in label industry.
43129		Higher adhesion and tack on the plate side. Cohesive adhesive for residue free demounting and clean removal. PP corrugated filmic release liner. Reverse wound version of 43121.			Cylinder side 4 Cliché side 10.5			
43140	Hard / Blue	Standard adhesion on the plate side. Clean removal. PP embossed release liner to reduce air entrapment.			Cylinder side 4 Cliché side 7		Photo-polymer	Block / solid printing on filmic substrates, can also be used for combination printing. Medium to large diameter cylinders. Ideal for longer print runs in flexible packaging.

## Double sided PE foam 550µm series

Product	Hardness / Colour	Characteristics	Thickness (mm)	Adhesive (both sides)	*Peel Adhesion (N/25mm)	Temp. Resistance	Plate Type	Application	
43200	Soft / Pink	Standard adhesion on the plate side. Clean removal. PP embossed release liner to reduce air entrapment.	0.55	Acrylic	Cylinder side 4 Cliché side 7	max + 70°C	Photo-polymer	Pure half tone printing onto filmic substrates. Medium to large diameter cylinders or sleeves. Ideal for longer print runs in flexible packaging.	
43201		Higher adhesion and tack on the plate side. Cohesive adhesive for residue free demounting and clean removal. PP embossed release liner to reduce air entrapment.			Cylinder side 4 Cliché side 10.3			Pure half tone printing. Small to large diameter cylinders or sleeves. Ideal for longer print runs in flexible packaging.	
43205		Lower adhesion and tack on the plate side. Clean removal. PP embossed release liner to reduce air entrapment.			Cylinder side 4 Cliché side 4.5			Pure half tone printing onto filmic substrates. Large diameter cylinders or sleeves. Easy plate repositioning.	
43220	Medium / White	Standard adhesion on the plate side. Clean removal. PP embossed release liner to reduce air entrapment.			Cylinder side 4 Cliché side 7			Half tone and block printing, or a combination of both. Medium to large diameter cylinders or sleeves. Ideal for longer print runs in flexible packaging.	
43221		Higher adhesion and tack on the plate side. Cohesive adhesive for residue free demounting and clean removal. PP embossed release liner to reduce air entrapment.			Cylinder side 4 Cliché side 10.3				Half tone and block printing, or a combination of both. Small to large diameter cylinders or sleeves used in the flexible packaging industry. Ideal for longer print runs.
43222		Higher adhesion on the plate side. Cohesive adhesive for residue free demounting and clean removal. PP release liner to reduce air entrapment.			Cylinder side 4 Cliché side 10				Half tone and block printing, or a combination of both. Medium to large diameter cylinders or sleeves. Intended for use in the paper industry with large or thick plates.

# Scapa Exafit® Range

## Double sided PE foam 550µm series

Product	Hardness / Colour	Characteristics	Thickness (mm)	Adhesive (both sides)	*Peel Adhesion (N/25mm)	Temp. Resistance	Plate Type	Application
43225	Medium / White	Lower adhesion on the plate side. Cohesive adhesive for residue free demounting and clean removal. PP embossed release liner to reduce air entrapment.	0.55	Acrylic	Cylinder side 4 Cliché side 4.5	max + 70°C	Photo-polymer	Half tone and block printing, or a combination of both. Large diameter cylinders or sleeves. Easy plate repositioning.
43229		Higher adhesion and tack on the plate side. Cohesive adhesive for residue free demounting and clean removal. PP corrugated filmic release liner. Reverse wound version of 43221.			Cylinder side 4 Cliché side 10.5		Photo-polymer / Rubber	Half tone and block printing, or a combination of both. Small to large diameter cylinders used in paper industry. Used when it is necessary to mount the tape on to the cliché first.
43240	Standard adhesion on the plate side. Clean removal. PP embossed release liner to reduce air entrapment.	Cylinder side 4 Cliché side 7			Photo-polymer		Block / solid printing on filmic substrates, it can also be used for combination printing. Medium to large diameter cylinders. Ideal for longer print runs in flexible packaging.	
43241	Higher adhesion and tack on the plate side. Cohesive adhesive for residue free demounting and clean removal. PP embossed release liner to reduce air entrapment.	Cylinder side 4 Cliché side 10.3					Superior block / solid print results even at elevated machine speeds. Medium to large diameter cylinders or sleeves. Ideal for longer print runs in flexible packaging.	
43245	Lower adhesion on plate side. Clean removal. PP embossed release liner to reduce air entrapment.	Cylinder side 4 Cliché side 4.5					Block / solid printing on filmic substrates, it can also be used for combination printing. Large diameter cylinders. Easy plate repositioning.	

## Double sided PE foam 760µm series

Product	Hardness / Colour	Characteristics	Thickness (mm)	Adhesive (both sides)	*Peel Adhesion (N/25mm)	Temp. Resistance	Plate Type	Application
43420	Medium / White	Standard adhesion on the plate side. Clean removal. PP embossed release liner to reduce air entrapment.	0.76	Acrylic	Cylinder side 6 Cliché side 10	max + 70°C	Photo-polymer / Rubber	Half tone and block printing, or a combination of both. Ideal for use when it is necessary to compensate for a lack of thickness between the sleeve and the plate.

## Double sided PE foam 1520µm series

Product	Hardness / Colour	Characteristics	Thickness (mm)	Adhesive (both sides)	*Peel Adhesion (N/25mm)	Temp. Resistance	Plate Type	Application
43620	Medium / White	Standard adhesion on the plate side. Clean removal. PP embossed release liner to reduce air entrapment.	1.52	Acrylic	Cylinder side 6 Cliché side 10	max + 70°C	Photo-polymer / Rubber	Half tone and block printing, or a combination of both. Particularly suitable for cardboard printing. Ideal for use when it is necessary to compensate for a lack of thickness between the sleeve and the plate.

\* Peel adhesion tested on steel at a 90° angle.



# Scapa Hardmount

High performance filmic plate mounting tapes for the printing and graphics industry

## Hardmount – plate holding power

Where a cushion is not necessary, Scapa offers a range of thin filmic plate mounting products. The Hardmount range has been specially developed to ensure a secure bond between the plate and sleeve or cylinder.

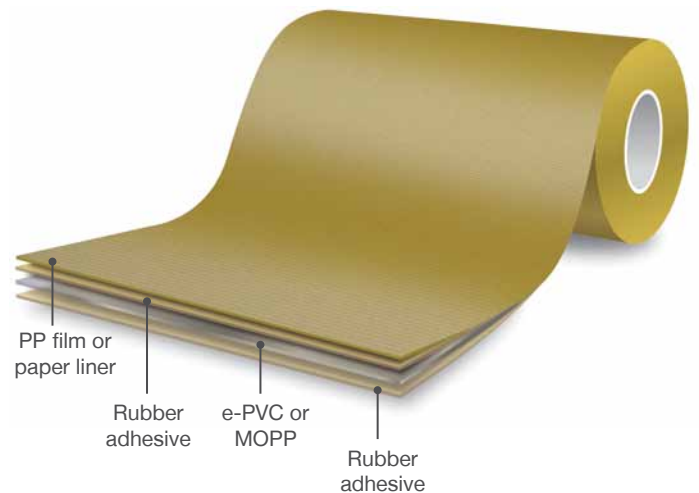
Scapa Hardmount offers a selection of double sided filmic tapes suitable for printing on traditional sleeves and cylinders as well as compressible sleeves.

Our range includes plate mounting tapes to ensure the best results in the most demanding print jobs in high speed flexography, lithography, general printing and reprographics.

### Hardmount features:

- Selection of PP corrugated filmic and paper liners - to assist in the release of air bubbles during mounting process and improves print quality.
- Choice of flexible carriers (PET, MOPP or PVC) that stay flat after unwinding to ease mounting process, enable easy repositioning of the plate and great conformability to the sleeve or cylinder.

- Printing grade rubber adhesive on both sides ensures a secure bond between the plate and tape as well as cylinder or sleeve. The specialist adhesive formulation ensures clean removal, great resistance to solvents and chemicals and will not damage the plate.



Scapa tapes can also be tailored to meet individual customer needs.

# Scapa Hardmount Range

## Double sided rigid films with filmic corrugated liner

Product	Colour	Characteristics	Thickness (mm)	Adhesive (both sides)	*Peel Adhesion (N/25mm)	Temp. Resistance	Plate Type	Application
43010	Clear	PVC Film. Soft brown PP corrugated filmic liner for ease of lamination process and removal.	0.10	High tack pressure sensitive rubber	13	max + 70°C	Photo-polymer / Rubber	For applications where a 100µm tape is required to make up the correct plate / tape thickness. Used in label printing and corrugated board industries.
43015		PVC film. Soft yellow PP corrugated filmic liner for ease of lamination process and removal.	0.15					For applications where a 150µm tape is required to make up the correct plate / tape thickness. Used in label printing and corrugated board industries.
43018	White	MOPP Film. Soft white PP corrugated filmic liner for ease of lamination process and removal.	0.20		15			For applications where a 200µm tape is required to make up the correct plate / tape thickness. Used in label printing and corrugated board industries.
43023	Clear				13			For applications where a 200µm tape is required to make up the correct plate / tape thickness. Used in label printing and corrugated board industries.
43025	White	MOPP Film. Soft yellow PP corrugated filmic liner for ease of lamination process and removal.	0.25		12			For applications where a 250µm tape is required to make up the correct plate / tape thickness. Used in label printing and corrugated board industries.
43030	Clear	MOPP Film. Soft green PP corrugated liner for ease of lamination process and removal.	0.30		11			For applications where a 300µm tape is required to make up the correct plate / tape thickness. Used in label printing and corrugated board industries.

## Double sided rigid films with paper liner

Product	Colour	Characteristics	Thickness (mm)	Adhesive (both sides)	*Peel Adhesion (N/25mm)	Temp. Resistance	Plate Type	Application
4311	Clear	PVC Film. Yellow siliconised paper liner.	0.10	High tack pressure sensitive rubber	13	max + 70°C	Photo-polymer / Rubber	For applications where a 100µm tape is required to make up the correct plate / tape thickness. Used in label printing and corrugated board industries.
4324		MOPP Film. Yellow siliconised paper liner.	0.20					For applications where a 200µm tape is required to make up the correct plate / tape thickness. Used in label printing and corrugated board industries.
4331			0.30		11			max + 80°C

## Double sided rigid films for compressible sleeves

Product	Colour	Characteristics	Thickness (mm)	Adhesive (both sides)	*Peel Adhesion (N/25mm)	Temp. Resistance	Plate Type	Application
43008	Clear	PVC carrier. Brown PP corrugated filmic release liner.	0.10	Rubber adhesive with higher adhesion on open side & removable acrylic adhesive on closed side.	Open side: 13.7 Liner side: 9.5	max + 70°C	Photo-polymer / Rubber	Used for compressible sleeves where a 100µm tape is required to make up the correct plate / tape thickness.
43009		PVC carrier. Brown paper liner.						

## Double sided cloth

Product	Colour	Characteristics	Thickness (mm)	Adhesive (both sides)	*Peel Adhesion (N/25mm)	Temp. Resistance	Plate Type	Application
174R	White	Woven cotton cloth carrier. Natural kraft release liner.	0.33	High tack pressure sensitive rubber	25	max + 70°C	Photo-polymer / Rubber	Used for printing in corrugated board market where a 330µm tape is required to make up the correct plate / tape thickness.

\* Peel adhesion tested on steel at a 90° angle.



## Scapa Complementary Range

### Scapa printing aids

At every stage in plate mounting, from proofing to final edge sealing applications, Scapa offers a suitable product from its complementary range of double-sided foam and filmic tapes.

Engineered with the latest advances in material and adhesive technology, Scapa's complementary range of products make the printing process easier and faster.

### Lithographic tapes

In high volume printing jobs, such as newspapers, magazines, catalogues or books, print quality relies on good preparation of the negative and positive films to ensure a good ink transfer between the plate and printed surface. At Scapa, we know how important these factors are, hence the development of cutting edge products to assist Mounters and Proofer's perform their jobs, either with pre-sensitised metal, electrostatic or chemical transfer plates.

Scapa's range of products include:

- For negative plates – red coloured tapes that are optically transparent and photographically opaque or clear.
- For positive films – blue coloured or clear adhesive tapes that do not affect the transmission of light through the tape.

### Edge sealing tapes

In today's fast changing environment, plates are developing quickly. Different materials and plate sizes are continually being introduced to the market. Some of the substrates may be difficult to stick to or are so large that many printers face edge lifting problems.

Scapa's edge lifting solutions include:

- Products with specialist adhesive, dedicated for use on difficult to bond to surfaces.
- Tapes with aggressive adhesive for large and rigid plates.
- Solvent resistant products to protect plates against inks and solvents.

All products remove cleanly without leaving any adhesive residue.

### Splicing tapes

At every stage in manufacturing, from core starting, butt splicing, overlap and flying splices applications to roll finishing and closing, Scapa offers a suitable product for the application.

- High performance adhesive formulations give high ultimate bond strength, giving secure splices which minimise down time.
- Stay flat carriers ensure no creasing, wrinkling and shrinkage on large widths applications.

The tapes are resistant to plasticisers and solvents.

Scapa tapes can also be tailored to meet individual customer needs.

# Scapa Complementary Range

## Edge sealing - Single sided

Product	Colour	Characteristics	Thickness (mm)	Carrier / Adhesive type	Peel Adhesion (N/cm)	Tensile Strength (N/cm)	Operating Temp.	Application
1112	Red	High tack, anti-static and hand tearable filmic tape made out of a transparent cellulose film coated with a red pigment, rubber based adhesive.	0.057	Cellulose film / Rubber	3	36	-15°C to +100°C	Recommended for general splicing applications. Suitable for use with most common substrates such as packaging papers, films and foils with the exception of siliconised materials. Also for plate sealing to avoid plate lifting.
1695	Silver	Filmic tape with excellent, shear, heat, chemical, moisture and solvent resistance. Aluminium carrier ensures a barrier against inks and solvents. Will not leave any residue upon removal.	0.045	Aluminised PET film / Acrylic	2.6	50	-15°C to +130°C	Recommended for long ageing and temperature resistant splicing, decorative and sealing applications. Also for plate sealing to avoid plate lifting.
2210	Red	Multi-purpose coloured filmic tape with good moisture and chemical resistance.	0.051	PVC / Rubber	2	48	-10°C to +60°C	Recommended for general packaging. Suitable for a variety of box sealing operations, bundling and a variety of medium to light domestic packaging and sealing applications at home or in the office. Also for plate sealing to avoid plate lifting.
3120	Red	A waterproof coated cloth tape with a pressure sensitive adhesive. Strong, highly flexible and conformable. It has excellent heat resistance with easy unwind and tear properties.	0.27	PE coated cloth / Rubber	4	18	-20°C to +80°C	Recommended for heavy duty and export packaging for drum sealing and colour coding. Also for plate sealing to avoid plate lifting.
6022	Black	Soft, PVC, single sided bonding tape with an aggressive adhesive system and easy tearability.	0.15	PVC / Rubber	1.8	30	0°C to +90°C	Electrical insulation, hamessing, protection for low and medium voltage cable splices, colour coding. Recommended for plate sealing to avoid plate lifting.

## Edge sealing - Double sided

Product	Colour	Characteristics	Thickness (mm)	Carrier / Adhesive type	Peel Adhesion (N/cm)	Tensile Strength (N/cm)	Operating Temp.	Application
4400	Translucent	Provides clean removability. Can bond low and high surface energy substrates but not suitable for UV exposure.	0.1	PVC / Rubber	5.2	N/A	-10°C to +70°C	Recommended for general purpose bonding, mounting display items, dummy packs, sample cards, show card assembly and splicing applications. Also for plate sealing to avoid plate lifting.
D160		Double-sided very high tack, hand tearable tape with a good plasticiser resistance.	0.11	PET film / Medium soft acrylic	6		-40°C to +95°C	Recommended for a variety of bonding, mounting and laminating applications. Also for plate sealing to avoid plate lifting.

# Scapa Complementary Range

## Lithographic

Product	Colour	Characteristics	Thickness (mm)	Carrier / Adhesive type	Peel Adhesion (N/cm)	Tensile Strength (N/cm)	Operating Temp.	Application
1100	Clear	Single-sided high tack, anti-static, hand tearable, filmic tape based on a clear cellulose film coated with a rubber resin adhesive and release coated.	0.047	Cellulose / Rubber	2	48	-15°C to +100°C	Recommended for general splicing, packaging and sealing applications. Butt splicing of packaging papers, films and foils.
1129	Red	Single-sided cellulose film coated with a solvent based rubber adhesive. Optically transparent and photographically opaque. Hand tearable and anti-static.	0.045		2.2	40	-10°C to +100°C ST +130°C	Recommended for lithographic, edging, masking, stripping and splicing applications. Suitable for the printing and graphics industry, for photographic films. It protects orthochromatic films, contact and enlarging papers and printing plates during exposure.
1140	Blue	Single-sided, hand tearable and anti-static filmic tape, based on clear cellulose film coated with a transparent blue, rubber/resin adhesive.				36		Designed for stripping up lithographic film positives. Blue for easy identification.
1250	Ultra clear	Single-sided crystal clear tape coated with a cured acrylic adhesive system.	0.045	Clear poly-propylene / Acrylic	2	28	-15°C to +110°C	Recommended for general gift wrapping and packaging applications. Suitable for a variety of domestic packaging and sealing applications at home, school or in the office.
1919	Translucent	Single-sided, hand tearable, filmic tape and translucent cellulose acetate film coated with an acrylic adhesive system. Invisible when applied.	0.054	Frosted matt acetate film / Acrylic	2.6	35		Recommended for general packaging and splicing applications. Suitable for a variety of domestic packaging and sealing applications at home, school or in the office. Suitable for general splicing applications with the exception of siliconised substrates.

## Splicing - Single sided

Product	Colour	Characteristics	Thickness (mm)	Carrier / Adhesive type	Peel Adhesion (N/cm)	Tensile Strength (N/cm)	Operating Temp.	Application
1112	Red	High tack, anti-static and tearable filmic tape which consists of a transparent cellulose film coated with a red pigment, rubber based adhesive.	0.057	Cellulose film / Rubber	3	36	-50°C to +100°C	Recommended for general splicing applications. Butt splicing of packaging papers, films and foils with the exception of siliconised materials.
1650		Tape coated with a red translucent silicone pressure sensitive adhesive system.	0.048	PET film / Silicone	2.8	40	-50°C to +130°C ST +180°C (20 min)	Recommended for a variety of splicing applications, particularly siliconised surfaces such as release papers and films. Butt splicing of siliconised papers and plastic films.

# Scapa Complementary Range

## Splicing - Double sided

Product	Colour	Characteristics	Thickness (mm)	Carrier / Adhesive type	Peel Adhesion (N/cm)	Tensile Strength (N/cm)	Operating Temp.	Application
4400	Translucent	Tape with a cured rubber adhesive providing clean removability. Can bond low and high surface energy substrates but not suitable for UV exposure.	0.1	PVC / Rubber	5.2	N/A	-10°C to +70°C	General purpose splicing with clean removability; core starting. General purpose, overlap splicing of papers.
4414		High performance tape based on a polyester film, coated on both sides with an acrylic adhesive system.	0.17	PET film / Acrylic	8		-40°C to +110°C ST +140°C	Recommended for high strength bonding, mounting and splicing applications. Bonds a wide variety of similar and dissimilar substrates including those with low surface energy, rubber profile, weather strips or other extruded plastic profiles.
D160		Very high tack, hand tearable tape with a good plasticiser resistance.	0.11	PET film / Acrylic	6		-40°C to +95°C	Recommended for a variety of bonding, mounting and laminating applications. Overlap splicing of heavy fabrics, wallpaper or other coarse substrates.

## Packaging

Product	Colour	Characteristics	Thickness (mm)	Carrier / Adhesive type	Peel Adhesion (N/cm)	Tensile Strength (N/cm)	Operating Temp.	Application
1252	Buff, clear, white	Single-sided filmic tape with a moderately high adhesion, pressure sensitive adhesive. Easy unwind, high tack, low noise. Moisture and chemical resistant.	0.051	PP / Rubber	2	48	up to +60°C	Recommended for medium to light bundling, box sealing and packaging applications.
2290		Single-sided filmic tape made with a hot-melt rubber resin adhesive.	0.047	PVC / Rubber	5.5	42.5	-0°C to +50°C	Recommended for box sealing and medium to light packaging applications.





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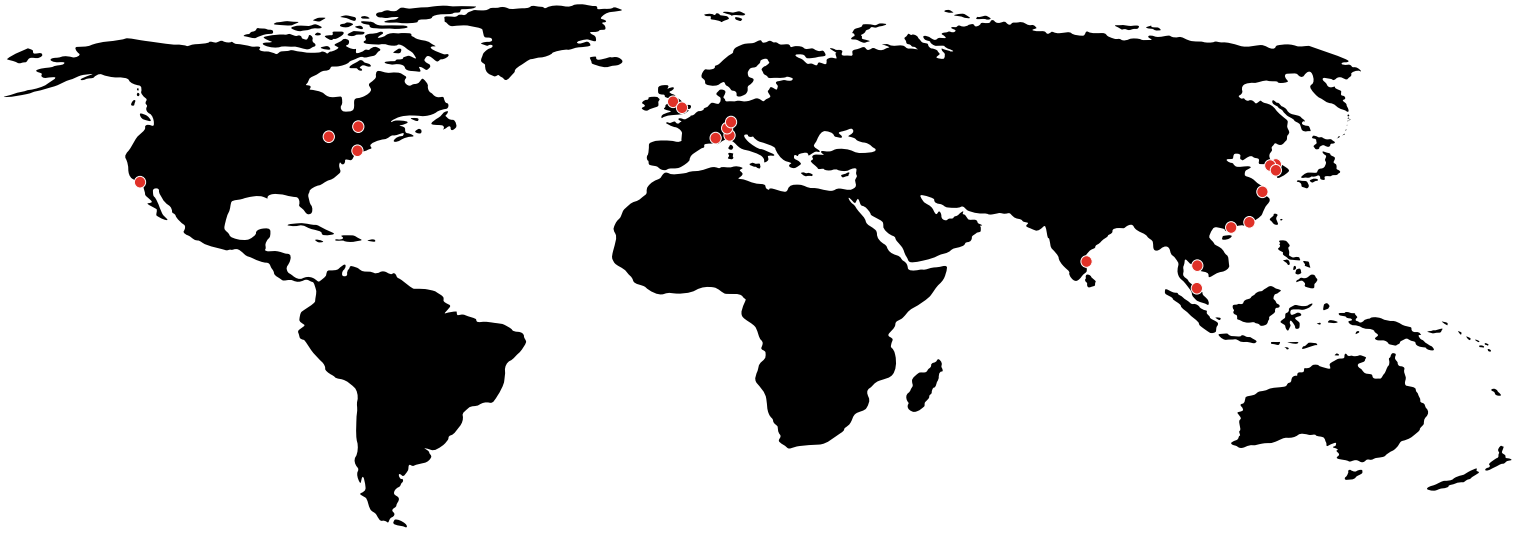
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