

< SCAPA PRINTING AND GRAPHICS >

PRINTING AND GRAPHICS PRODUCT GUIDE

Making print come alive



scapaindustrial.com



Industrial



SCAPA - YOUR EXPERIENCED PRINTING PARTNER

Scapa Group is a market-leading developer and manufacturer of bonding materials and solutions.

We help electronics, healthcare and industrial customers create better products by providing adhesive solutions and components. We design our offering around the requirements of global OEMs, distributors and consumers. Our products are used extensively in a wide range of markets around the world. The applications range from vehicle emblem bonding to precision adhesives for the latest smartphones.

WHY USE SCAPA?

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 and 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® HP, Hardmount, and Complementary ranges.

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SCAPA EXAFIT® HP RANGE

Today's flexographic printers are constantly looking to perfect the quality of their printing and to improve their processes. Printing quality, speed and efficiency are essential to meet the growing demands of their customers. Exafit® HP gives a reliable bond to the plate/cylinder enabling longer, faster print runs with improved printing definition and reduced dot gain.

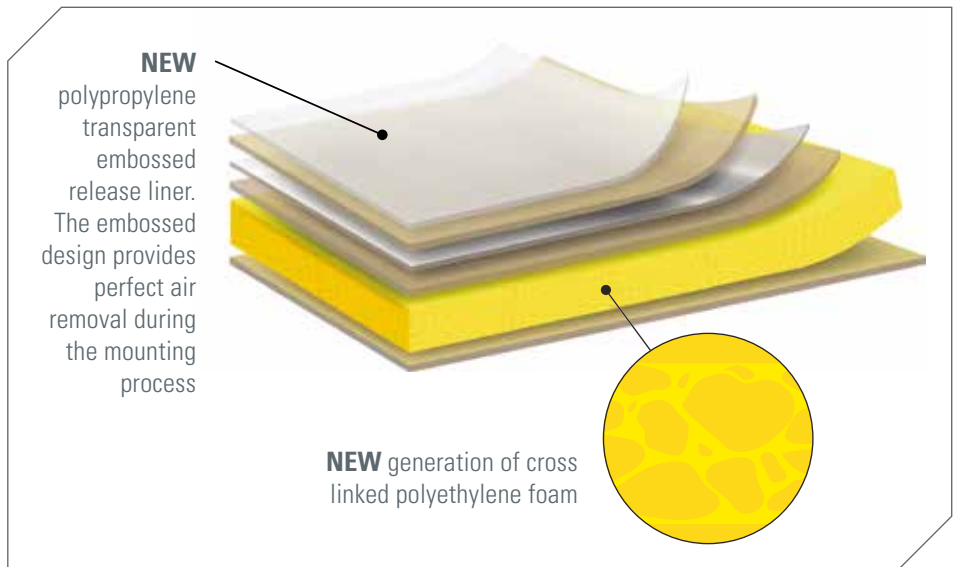
CREATING HIGH VISUAL IMPACT

- › With the addition of 5 new foam hardness products, from soft to hard foam including medium soft and medium hard, the Exafit® HP range can provide perfect results for any print job
- › Printing with Exafit® HP maintains consistent contrast and detail over long print runs
- › Colour density and intensity is preserved
- › The higher resilience of the PE foam absorbs any tolerances caused by variable substrate thickness and machine vibration by reduction of the bouncing effect on the print result

SCAPA EXAFIT® HP RANGE

MAKING YOUR PROCESS MORE EFFICIENT

- > The **NEW** polypropylene transparent embossed filmic liner is easy to remove and reposition. It not only reduces the number of air bubbles but also allows them to be removed with ease. These benefits are essential in reducing set up times during the crucial mounting process.
- > The **NEW** generation of polyethylene compressible foam ensures high quality printing and even longer, faster print runs. Process efficiency is increased as fewer foam changes and adjustments are required during the print run.



DOUBLE-SIDED PE FOAM 430µm SERIES

Product	Hardness / Colour	Printing Results	Application
43100HP	Soft / Pink		Standard adhesion on the plate side. To be used on medium to large diameter cylinders or sleeves
43101HP	Soft / Pink		Higher adhesion and tack on the plate side. To be used on small to medium diameter cylinders or sleeves
43120HP	Medium / White		Standard adhesion on the plate side. To be used on medium to large diameter cylinders or sleeves
43121HP	Medium / White		Higher adhesion and tack on the plate side. To be used on small to medium diameter cylinders or sleeves
43129HP	Medium / White		Reverse wound version of 43121HP. Higher adhesion and tack on the plate side. To be used when it is necessary to mount the plate on to the tape first
43140HP	Hard / Blue		Standard adhesion on the plate side. To be used on medium to large diameter cylinders or sleeves
43141HP	Hard / Blue		Higher adhesion and tack on the plate side. To be used on small to medium diameter cylinders or sleeves



Process Printing



Combination Printing




Solid Printing

DOUBLE-SIDED PE FOAM 560 μ m SERIES

Product	Hardness / Colour	Printing Results	Application
43200HP	Soft / Pink		Standard adhesion on the plate side. To be used on medium to large diameter cylinders or sleeves
43201HP	Soft / Pink		Higher adhesion and tack on the plate side. To be used on small to medium diameter cylinders or sleeves
43210HP	Medium Soft / Yellow		Standard adhesion on the plate side. To be used on medium to large diameter cylinders or sleeves
43211HP	Medium Soft / Yellow		Higher adhesion and tack on the plate side. To be used on small to medium diameter cylinders or sleeves
43220HP	Medium / White		Standard adhesion on the plate side. To be used on medium to large diameter cylinders or sleeves
43221HP	Medium / White		Higher adhesion and tack on the plate side. To be used on small to medium diameter cylinders or sleeves
43229HP	Medium / White		Reverse wound version of 43221HP. Higher adhesion and tack on the plate side. To be used when it is necessary to mount the plate on to the tape first
43230HP	Medium Hard / Green		Standard adhesion on the plate side. To be used on medium to large diameter cylinders or sleeves
43231HP	Medium Hard / Green		Higher adhesion and tack on the plate side. To be used on small to medium diameter cylinders or sleeves
43240HP	Hard / Blue		Standard adhesion on the plate side. To be used on medium to large diameter cylinders or sleeves
43241HP	Hard / Blue		Higher adhesion and tack on the plate side. To be used on small to medium diameter cylinders or sleeves

DOUBLE-SIDED PE FOAM 1520 μ m SERIES

Product	Hardness / Colour	Printing Results	Application
43620HP	Medium / White		Standard adhesion on the plate side. To be used on medium to large diameter cylinders or sleeves



Process Printing



Process / Combination Printing



Combination Printing



Combination / Solid Printing



Solid Printing



SCAPA HARDMOUNT

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

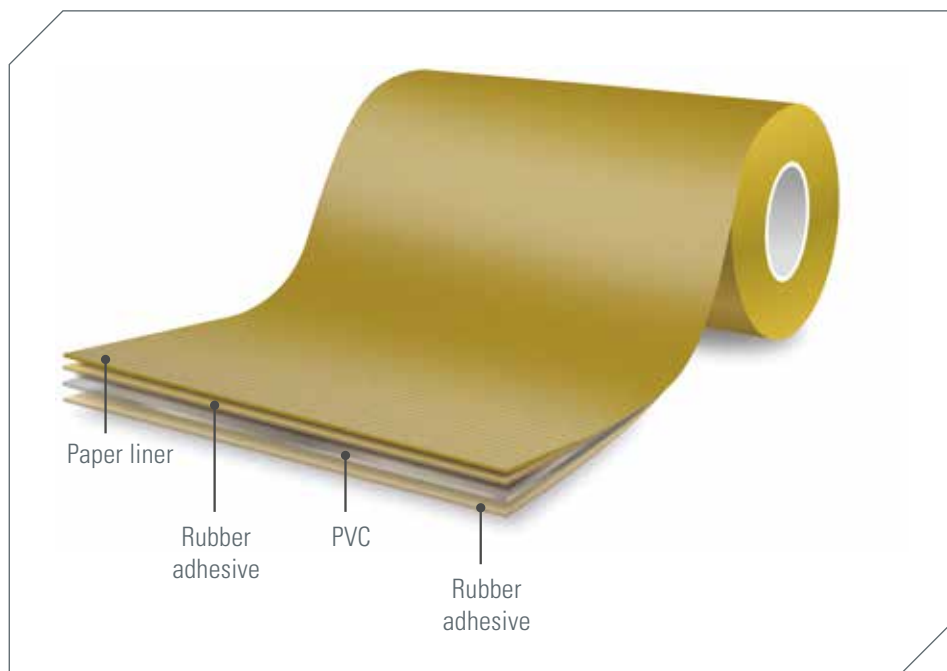
Hardmount – plate holding power

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.

SCAPA HARDMOUNT RANGE



Hardmount features:

- Our flexible PVC carrier stays 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.

DOUBLE-SIDED RIGID FILMS WITH PAPER LINER

Product	Colour	Characteristics	Thickness (mm)	Adhesive (both sides)	*Peel Adhesion (N/25mm)	Temp. Resistance	Plate Type	Application
4405	Clear	PVC Film. White 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

DOUBLE-SIDED CLOTH

Product	Colour	Characteristics	Thickness (mm)	Adhesive (both sides)	*Peel Adhesion (N/25mm)	Temp. Resistance	Plate Type	Application
174	White	Woven cotton cloth carrier. Natural kraft release liner	0.33	High tack pressure sensitive rubber	14	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 180° angle.

SCAPA COMPLEMENTARY RANGE



SCAPA PRINTING ACCESSORIES

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.

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.

EDGE SEALING – SINGLE-SIDED

Product	Colour	Characteristics	Thickness (mm)	Carrier / Adhesive Type	Peel Adhesion (N/25mm)	Tensile Strength (N/cm)	Operating Temp.	Application
637	Red	Self-wound PET with an aggressive acrylic adhesive that has excellent ageing & weathering properties	0.066	Polyester / Acrylic	8.8	-	-10°C to +110°C	Splicing tape
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	7	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	0.05	PVC / Rubber	5	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	0.26	PE Coated Cloth / Rubber	10	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	4.5	30	0°C to +90°C	Electrical insulation, harnessing, 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/25mm)	Tensile Strength (N/cm)	Operating Temp.	Application
4405	Translucent	Provides clean removability. Can bond low and high surface energy substrates but not suitable for UV exposure	0.1	PVC / Rubber	13	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	31		-40°C to +95°C	Recommended for a variety of bonding, mounting and laminating applications. Also for plate sealing to avoid plate lifting

SPLICING – SINGLE-SIDED

Product	Colour	Characteristics	Thickness (mm)	Carrier / Adhesive Type	Peel Adhesion (N/25mm)	Tensile Strength (N/cm)	Operating Temp.	Application
637	Red	Self-wound PET with an aggressive acrylic adhesive that has excellent ageing and weathering properties	0.066	Polyester / Acrylic	8.8	-	-10°C to +110°C	Splicing tape
1650		Tape coated with a red translucent silicone pressure sensitive adhesive system	0.048	PET Film / Silicone	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

SPLICING – DOUBLE-SIDED

Product	Colour	Characteristics	Thickness (mm)	Carrier / Adhesive Type	Peel Adhesion (N/25mm)	Tensile Strength (N/cm)	Operating Temp.	Application
4405	Translucent	Provides clean removability. Can bond low and high surface energy substrates but not suitable for UV exposure	0.1	PVC / Rubber	13	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
4414		High performance tape based on a polyester film, coated on both sides with an acrylic adhesive system	0.17	PET Film / Acrylic	20		-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	31		-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

ROLL COVERING

Product	Colour	Characteristics	Thickness (mm)	Carrier / Adhesive Type	Peel Adhesion (N/25mm)	Tensile Strength (N/cm)	Operating Temp.	Application
2420	Black	Rollermate™ dimpled silicone rubber coated cloth tape	0.75	Silicone Rubber coated cloth / rubber	3.75	110	-10°C to +100°C	Roll covering in web processing applications to provide anti-slip on anti-adherent surfaces. Prevents build-up of adhesive, ink and other deposits on web transport rollers

PACKAGING

Product	Colour	Characteristics	Thickness (mm)	Carrier / Adhesive Type	Peel Adhesion (N/25mm)	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	0.047	PP / Rubber	13.75	48	up to +60°C	Recommended for medium to light bonding, box sealing and packaging applications
2290		Single-sided filmic tape made with a hot-melt rubber resin adhesive	0.051	PVC / Rubber	5	42.5	-0°C to +50°C	Recommended for box sealing and medium to light packaging applications

CLEANING & MOUNTING RECOMMENDATIONS



CYLINDER AND SLEEVE CLEANING

- › Clean cylinder and sleeve removing all contamination, particularly ink and adhesive residue
- › **For surface cleaning use:** 50/50 Isopropyl alcohol and water
- › Wipe the surface using a dry tissue. The cylinder and sleeve must be totally dry to prevent any pollution during the mounting process
- › Some sleeves can be damaged by nicks and scratches. These defects / irregularities can affect the level of adhesion



PLATE CLEANING

- › Clean plate removing all contamination, particularly ink and adhesive residue
- › **For surface cleaning use:** 50/50 Isopropyl alcohol and water
- › Wipe the surface using a dry tissue. The plate must be totally dry to prevent any pollution during the mounting process. This also helps to prevent plate lifting
- › Some new plates can present some contamination from the photopolymer plate making process. This can affect the level of adhesion and cause plate lifting

NOTE: Ethyl Acetate (heavy solvent) can strongly affect adhesive performance and leave residue



TAPE MOUNTING ON THE CYLINDER AND SLEEVE

- › Apply the tape in a sweeping motion, line by line
- › The embossed surface of the liner helps to prevent air entrapment between the tape and the cylinder / sleeve. It also enables quick and easy air bubble removal
- › Apply consistent pressure during the mounting process. Using a squeegee, will help to ensure optimum bonding between the tape and the cylinder / sleeve



PLATE MOUNTING ON THE TAPE

- › Apply the plate in a sweeping motion
- › The embossed surface of the liner helps to prevent air entrapment between the tape and the plate. It also enables quick and easy air bubble removal
- › Apply consistent pressure during the mounting process. Using a rubber roller, will help to ensure optimum bonding between the tape and the plate. This is particularly important on the edge and will help to prevent plate lifting

NOTES

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GLOBAL SOLUTIONS



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