

ATP GRAPHICS

MOUNT
MOUNTING TAPES

GUARD
LAMINATION FILMS

PRINT
PRINTING FILMS

**PREMIUM QUALITY
IS OUR STANDARD**

ATP offers a wide product range of self-adhesive digital printing materials for many different applications as well as matching self adhesive overlaminates. In order to achieve optimum application results please follow the handling instructions.

STORAGE AND HANDLING INSTRUCTIONS

ATP GRAPHICS products are delivered as roll goods and should be stored vertically on the roll block-support (included) or suspended with roll-core end blocks. Never store the rolls lying-down. The products in the original packaging must be stored in dry conditions with a relative humidity between 50 – 60% and temperature between +18°C – +22°C. Do not expose the products to direct sunlight or store next to a heating radiator. Please consult our technical data sheets regarding the shelf life of each product. Opened rolls should be stored in their original packaging and covered with a protective cover. We recommend to use only material with the same batch number for one graphical application. In this context ATP ensures that every film roll consists of material of the same batch no. and consequently does not have any splice. When different batch numbers are used the technician should make tests to find out possible differences in using the films and in the quality of the graphical application.

PRINTING INSTRUCTIONS

In order to avoid surface deterioration or contamination the digital printing materials must be applied with reasonable care wearing cotton gloves. Before printing the digital printing materials must be acclimatised to room temperature in order to avoid border corrugation. All ATP PRINT digital

printing materials require different printer profiles and RIP software settings. With regards to drying temperature please activate maximum temperature limits. Monomeric materials can be dried between 50°C and 60°C and polymer materials between 60°C and 70°C. The exact value depends on amounts and types of inks used on the print and the speed of printing. Very high temperatures can cause PVC films to cockle or wave, high shrinkage and yellowing of the PVC. Excessive heat can also lead to softening of the film and therefore overexpansion in the printer. When this phenomenon appears please reduce the printer temperature immediately. With regards to the application areas (in- and out-door) please make sure that durability of digital printing materials and ink correspond. After printing the digital printing materials are to be stored at least 24h at room temperature in order to achieve sufficient drying.

LAMINATION

To protect your printed materials from scratches or damage we recommend the use of ATP lamination films. ATP GUARD films help you achieve the desired colour tones and give your materials the right gloss, matt, semi-gloss or textured effect. The lamination films also guard your printed materials from UV radiation whilst providing protection from humidity and abrasion. Make sure that the chosen protective film is compatible with the print surface; e.g. combine monomeric printed vinyl with monomeric overlaminate vinyl or polymeric with polymeric films. Lamination instructions can be found in the ATP PRINT product tables in our ATP GRAPHICS brochure. For excellent results cleanliness is of the utmost importance. Contamination can

be removed easily with conventional cleaning detergents. Before laminating the printed films the prints must be allowed to dry completely in order to avoid inclusion of solvents not yet evaporated which could result in image rub-off. Insufficient drying of printed films may also result in damaging the lamination film adhesive which causes bubbling. Another effect of insufficient drying is the re-solution of the semi-dried ink. ATP GUARD protection films and ATP MOUNT mounting tapes can be cold laminated but in order to achieve better flow characteristics and to avoid silvering, we recommend a lamination temperature between 40°C and 60°C. To achieve optimal mechanical durability between the laminating-/mounting films and print medium the laminated product should be put aside until the final bonding strength has been achieved, usually a few hours after lamination. Laminated and/or mounting prints must be rolled up and transported with a large radius as possible and with the laminating film on the outside of the roll in order to avoid tunneling.

BONDING

ATP digital printing materials can be applied to a wide range of surfaces. They must be clean, dry and free of grease, dirt, silicone and other contaminants. For best results clean the surface with a standard cleaner followed by a suitable solvent such as isopropanol (IPA) which will completely degrease the surface. Be sure to allow the surface to dry completely since solvent residues may cause bubbling between film and surface. ATP digital printing materials are suitable to apply to wet surfaces. Temporary whitening may appear but will disappear after a short period once the adhesive has completely dried. Do not use the product under the recommended minimum

application temperature which can be found in the appropriate technical data sheet. Generally bonding should be made under stress-free conditions.

REMOVAL

For advertising graphics removal we recommend to start with one corner and slowly peel off the surface with a 60° – 90° peel angle. It may be helpful to use a hot-air blower or metal scraper but this must be used with caution to avoid surface damage. The use of ATP GRAPHICS products allows for easy removal from a variety of surfaces with low or no adhesive residue. Especially recommended for no adhesive residue upon removal is the use of the removable product GM-107 R/P. In the unlikely event that some adhesive residues remain on the surface they can easily be removed with a lemon-based cleaner or solvent (e.g. heptanes, isopropylalcohol, acetone).

All our products are subjected to strict quality control in accordance with our total quality management system ISO/TS 16949, DIN EN ISO 9001 and DIN EN ISO 14001. The published data is based on our present knowledge and experience. The values are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers and users should independently determine prior to use the suitability of this material for their specific purposes. It is the responsibility of the purchaser and user to determine possible patent rights and existing regulations prior to use of the products. Our technical application division is at your disposal to give you advice for your materials and applications.

ATP Products are to the greatest possible extent solvent-, chloride- and heavy metal-free. For this reason no special procedures or precautions are required during the disposal of the products. Our products may be considered as environmentally friendly.

Application	Product	Total thickness	Carrier	Surface	Adhesive	Liner	Peel adhesion ① [N/25mm] according to (AFERA 5001)	Tack [N/25mm] according to FTM9	Heat resistance ② according to AA-B-12-07	Recom- mended application temperature	Rolls dimensions ③	
											Width (mm)	Length (m)
High Quality Mount Adhesive Permanent adhesive for the mounting of a wide variety of substrates. Excellent processing characteristics, providing excellent adhesion to a wide variety materials like plastics, films, wood, glass, aluminium and other metals. Suitable for indoor and outdoor applications.	GM-107 Q	70 µm	polyester film, 12 µm	transparent	polyacrylate, permanent, pH-neutral	both sided siliconized special paper, white, 90 g/m ²	11	4	-40 °C to +150 °C	> + 10 °C	1040 1300 1400 1550	
High Quality Permanent / Removable Mount Adhesive Permanent / removable adhesive for the mounting of a wide variety of substrates. Excellent processing characteristics, providing excellent adhesion to a wide variety materials like plastics, films, wood, glass, aluminium and other metals. Removable adhesive with good bond strength and removability with very low adhesive residue.	GM-107 R/P	70 µm	polyester film, 12 µm	transparent	open side: polyacrylate, permanent closed side: polyacry- late, semi-permanent, pH-neutral	both sided siliconized special paper, white, 90 g/m ²	open: 11 closed: 6	open: 4 closed: 1	-40 °C to +150 °C	> + 10 °C		
High Quality Permanent / Ultra Removable Mount Adhesive Permanent / removable adhesive for the mounting of a wide variety of substrates. Excellent processing characteristics, providing excellent adhesion to a wide variety materials like plastics, wood, glass, aluminium and other metals. Removable adhesive with good bond strength and removability with no residue. Very suitable for glass applications.	GM-107 ER/P	70 µm	polyester film, 12 µm	transparent	open side: polyacrylate, permanent closed side: polyacrylate, remov- able, pH-neutral	both sided siliconized glassine paper, white, 90 g/m ²	open: 11 closed: 1	open: 4 closed: 1	-40 °C to +150 °C	> + 10 °C		
High Quality Crystal Clear Mount Adhesive For the permanent, self-adhesive lamination of even surfaces. Very well processible, provides excellent adhesion to almost all materials like plastics, foils, wood, glasses or metals with excellent flatness. Especially designed for mounting of photographs, large size transparencies onto glass, acrylic glass, etc. Suitable for in- and outdoor application.	GM-107 CC	70 µm	polyester foil, 12 µm	transparent	polyacrylate, permanent, both sides, pH-neutral	both sides protected with a 30µm ultra-clear PET-foil	11	4	-40 °C to +150 °C	> + 10 °C		
Double Sided Nonwoven Tape High bond strength double sided tape for bonding onto even and rough/structured surfaces (e.g. fibre boards (MDF)). High adhesions levels to a very wide variety of surfaces including various plastics, wood, glass, aluminium and other metals. Suitable for indoor and outdoor applications.	GM-210	100 µm	paper-tissue, 12 g/m ²	white	modified polyacrylate, permanent	both sided siliconized glassine paper, white, 90 g/m ²	13	9	-40 °C to +130 °C	> + 10 °C	1250	
BANNERBOND (with FINGERLIFT) Suitable for applications on even and structured surfaces as well as for load-bearing bonding of banner materials (PVC or PVC coated fabrics). Suitable for indoor and outdoor applications. www.bannerbond.com	GM-740-25 GM-740-40 GM-740-50	400 µm	adhesive film without carrier (transfer)	transparent	polyacrylate, permanent, pH-neutral	both sided siliconized PET- film, 36 µm, Fingerlift	25	8	-40 °C to +130 °C	> + 10 °C	25 40 50	25
TEXBOND (with FINGERLIFT) Double Sided Scrim Tape for Textiles High bond strength scrim tape for use in a wide variety of materials, particularly suitable for load-bearing bonding of printed or unprinted coated textiles and fabrics. Suitable for indoor and outdoor applications.	GM-624 FL	240 µm	PES/PVA-scrim	white	polyacrylate, permanent	Polyolefine foil, white 80 µm	35	20	-40 °C to +100 °C	> + 10 °C	20 40	
Double Sided PVC Tape High strength white double sided PVC-tape for bonding onto even and rough surfaces (e.g. heavy displays). High adhesions levels to a very wide variety of surfaces including various plastics, wood, glass, aluminium and other metals. Suitable for indoor and outdoor applications.	GM-425	250 µm	Soft-PVC film, 80 µm	white	modified polyacrylate, permanent	both sided siliconized glassine paper, yellow, 90 g/m ²	35	14	-40 °C to +130 °C	> + 10 °C	5 - 1000	
Double Sided Nonwoven Tape High bond strength double sided tape for bonding onto even and rough surfaces (e.g. heavy displays). High adhesions levels to a very wide variety of surfaces including various plastics, wood, glass, aluminium and other metals. Suitable for indoor and outdoor applications.	GM-216	160 µm	paper-tissue, 12 g/m ²	white	modified polyacrylate, permanent	both sided siliconized glass- ine paper, yellow, 90 g/m ²	25	16	-40 °C to +160 °C	> + 10 °C		

① measured after 24 h on steel ② bonded on aluminium ③ special roll dimensions available on request

Amazing Bannerbond: Easier, stronger and repositionable.

Application	Product	Total thickness	Carrier	Surface	Adhesive	Liner	Peel adhesion ❶ [N/25mm] according to (AFERA 5001)	Recommended application temperature	Heat resistance ❷ according to AA-B-12-07	UV-protection extension in years ❸	Rolls dimensions ❹	
											Width (mm)	Length (m)
Polymeric PVC-film High quality optically brilliant polymeric PVC for lamination of various print media, including UV-Inkjet printed substrates. Suitable for long term outdoor and indoor light box applications. Particularly suitable for applications requiring very high clarity.	GL-410 P G	100 µm	Soft-PVC-film, 70 µm, polymer	transparent, glossy	polyacrylate, permanent, pH-neutral	glassine paper, 63 g/m ² , single side siliconized, white	11	> + 8 °C	-40 °C to +90 °C	>5	1040 1300 1400 1550 1600	50
	GL-410 P SG	100 µm	Soft-PVC-film, 70 µm, polymer	transparent, satin	polyacrylate, permanent, pH-neutral	glassine paper, 63 g/m ² , single side siliconized, white	11	> + 8 °C	-40 °C to +90 °C	>5		
	GL-410 P M	100 µm	Soft-PVC-film, 70 µm, polymer	transparent, matt	polyacrylate, permanent, pH-neutral	glassine paper, 63 g/m ² , single side siliconized, white	11	> + 8 °C	-40 °C to +90 °C	>5		
Monomeric Soft-PVC-film High-quality monomeric PVC for cold lamination and protection of printed media, including UV-Inkjet printed substrates. Suitable for short to medium term indoor and outdoor applications.	GL-410 G	100 µm	Soft-PVC-film, 70 µm, monomer	transparent, glossy	polyacrylate, permanent, pH-neutral	glassine paper, 63 g/m ² , single side siliconized, white	11	> + 8 °C	-40 °C to +80 °C	> 2	1040 1300 1400 1550 1600	50
	GL-410 SG	100 µm	Soft-PVC-film, 70 µm, monomer	transparent, satin	polyacrylate, permanent, pH-neutral	glassine paper, 63 g/m ² , single side siliconized, white	11	> + 8 °C	-40 °C to +80 °C	> 2		
	GL-410 M	100 µm	Soft-PVC-film, 70 µm, monomer	transparent, matt	polyacrylate, permanent, pH-neutral	glassine paper, 63 g/m ² , single side siliconized, white	11	> + 8 °C	-40 °C to +80 °C	> 2		
Structured PVC-film High-quality, monomeric textured PVC for use in a wide variety of applications including various floor graphics (fulfills slip resistance standard DIN 51130 - R9 Rating), as well as pop-up materials.	GL-412	120 µm	Soft-PVC-film, 100 µm, monomer	transparent, structure with stamping	polyacrylate, permanent, pH-neutral	glassine paper, 63 g/m ² , single side siliconized, white	11	> + 8 °C	-40 °C to +80 °C	> 1	900 1040 1300 1400 1550	50
Structured PVC-film High-quality, monomeric textured PVC for use in a wide variety of applications particularly harsh environment floor graphics (fulfills slip resistance standard DIN 51130 - R10 Rating), as well as pop-up materials.	GL-420	200 µm	Soft-PVC-film, 170 µm, monomer	transparent, structure with stamping	polyacrylate, permanent, pH-neutral	glassine paper, 63 g/m ² , single side siliconized, white	11	> + 8 °C	-40 °C to +80 °C	> 1	900 1040 1300 1400	
Structured PP-Eco-film High-quality, textured PP (PVC and plasticizer free) for use in a wide variety of applications including various floor graphics (fulfills slip resistance requirements ASTM D 2047), as well as pop-up materials.	GL-515	150 µm	PP-transparent, 120 µm	transparent, structure with stamping	polyacrylate, permanent, pH-neutral	glassine paper, 63 g/m ² , single side siliconized, white	11	> + 8 °C	-40 °C to +80 °C	> 2	1040 1300 1550	50
High Glossy Polyester Film High-quality glossy polyester film for cold lamination and protection of printed media, including UV-Inkjet printed substrates. Suitable for short to medium term indoor and outdoor applications.	GL-107 PET	70 µm	polyester, 36 µm	transparent, high-glossy	polyacrylate, permanent, pH-neutral	30 µm ultra-clear PET-foil	11	> + 8 °C	-40 °C to +110 °C	> 1	1040 1300 1550	50

❶ measured after 24h on steel ❷ bonded on aluminium

❸ under standard european climate ❹ special roll dimensions available on request

Thicker adhesive on laminates makes them good for UV-curable inks and helps to prevent silvering on all prints.

Application	Product	Total thickness	Carrier	Surface	Adhesive	Liner	Peel adhesion ❶ [N/25mm] according to (AFERA 5001)	Peel adhesion ❷ [N/25mm] according to (AFERA 5001)	Recommended application temperature	Heat resistance ❸ according to AA-B-12-07	Durability in years ❹ (not printed)	Recommendation ATP-Laminates	Rolls dimensions ❺	
													Width (mm)	Length (m)
Repositionable, polymeric soft PVC-film High-quality, polymeric PVC film, suitable for colour intensive and brilliant prints for long-term advertisement both indoor and outdoor. Conformable polymeric film suitable for use in curved surfaces and long term outdoor prints. High adhesion to a wide variety of substrates including diverse plastics, foamex, glass and aluminium. Excellent printing performance on a wide variety of solvent, eco-solvent, latex and UV digital print machines. The structured liner enables to apply the film dry and without air bubbles.	GP-410 P g AE	100 µm	Soft-PVC-film, polymer, 80 µm	white, glossy	polyacrylate, permanent, pH-neutral, grey	single side siliconized PE-coated paper, white, 160g/m ² , structured	8	11	>> 10 °C	-40 °C to +90 °C	>7	GL-410 P	1050 1370 1400 1520 1600	50
Repositionable, polymeric PVC-film High-quality, repositionable, polymeric PVC film, suitable for colour intensive and brilliant prints for long-term advertisement both indoor and outdoor. Conformable Polymeric film suitable for use in curved surfaces and long term outdoor prints. High adhesion to a wide variety of substrates including varying plastics, foamex, glass and aluminium. Excellent printing performance on a wide variety of solvent, eco-solvent, latex and UV digital print machines.	GP-410 P	100 µm	Soft-PVC-film, polymer, 80 µm	white, glossy	polyacrylate, permanent, pH-neutral	single side siliconized PE-silicone paper, white, 140 g/m ²	8	11	>> 10 °C	-40 °C to +90 °C	>7	GL-410 P	762 1050 1370 1400 1520 1600	50 100
	GP-410 P g	100 µm	Soft-PVC-film, polymer, 80 µm	white, glossy	polyacrylate, permanent, pH-neutral, grey	single side siliconized PE-silicone paper, white, 140 g/m ²	8	11	>> 10 °C	-40 °C to +90 °C	>7	GL-410 P		
	GP-410 P C	100 µm	Soft-PVC-film, polymer, 70 µm	transparent, glossy	polyacrylate, permanent, pH-neutral	single side siliconized PE-silicone paper, white, 140 g/m ²	8	11	>> 10 °C	-40 °C to +90 °C	>7	GL-410 P		
Repositionable, monomeric PVC-film Monomeric, repositionable PVC film suitable for use in a wide variety of applications with flat and slightly curved surfaces. Suitable for colour intensive and brilliant prints for short to medium term advertisement both indoor and outdoor. High adhesion to a wide variety of substrates including varying plastics, foamex, glass and aluminium. Excellent printing performance on a wide variety of solvent, eco-solvent, latex and UV digital print machines.	GP-412 wg	120 µm	Soft-PVC-film, monomer, 100 µm	white, glossy	polyacrylate, permanent, pH-neutral	single side siliconized coated paper, white, 120 g/m ²	8	11	>> 10 °C	-40 °C to +80 °C	>4	GL-410	762 1050 1370 1400 1520 1600	50 100
	GP-412 wm	120 µm	Soft-PVC-film, monomer, 100 µm	white, matt	polyacrylate, permanent, pH-neutral	single side siliconized coated paper, white, 120 g/m ²	8	11	>> 10 °C	-40 °C to +80 °C	>4	GL-410		
	GP-412 wg R g	120 µm	Soft-PVC-film, monomer, 100 µm	white, glossy	polyacrylate, semi-permanent, pH-neutral, grey	single side siliconized coated paper, white, 120 g/m ²	4	6	>> 10 °C	-40 °C to +80 °C	>4	GL-410 GL-412 GL-420		
Repositionable, monomeric PVC-film Monomeric, repositionable PVC film suitable for use in a wide variety of applications with flat and slightly curved surfaces. Suitable for colour intensive and brilliant prints for short to medium term advertisement both indoor and outdoor. High adhesion to a wide variety of substrates including varying plastics, foamex, glass and aluminium. Excellent printing performance on a wide variety of solvent, eco-solvent, latex and UV digital print machines.	GP-410 wg	100 µm	Soft-PVC-film, monomer, 80 µm	white, glossy	polyacrylate, permanent, pH-neutral	single side siliconized coated paper, white, 120 g/m ²	8	11	>> 10 °C	-40 °C to +80 °C	>2	GL-410	762 1050 1370 1400 1520 1600	50 100
	GP-410 wg g	100 µm	Soft-PVC-film, monomer, 80 µm	white, glossy	polyacrylate, permanent, pH-neutral, grey	single side siliconized coated paper, white, 120 g/m ²	8	11	>> 10 °C	-40 °C to +80 °C	>2	GL-410		
	GP-410 wm	100 µm	Soft-PVC-film, monomer, 80 µm	white, matt	polyacrylate, permanent, pH-neutral	single side siliconized coated paper, white, 120 g/m ²	8	11	>> 10 °C	-40 °C to +80 °C	>2	GL-410		
	GP-410 cg	100 µm	Soft-PVC-film, monomer, 70 µm	transparent, glossy	polyacrylate, permanent, pH-neutral	single side siliconized coated paper, white, 120 g/m ²	8	11	>> 10 °C	-40 °C to +80 °C	>2	GL-410		

- ❶ measured after 10 min on steel ❷ measured after 24h on steel
 ❸ bonded on aluminium ❹ under standard european climate
 ❺ special roll dimensions available on request

Water-based adhesives are better for the environment.

MOUNT MOUNTING TAPES

POLYACRYLATE, PERMANENT

Polyacrylate, solvent-free, which provides superior ageing and weatherability performance. This adhesive is pH-neutral and environment friendly. It shows an outstanding combination of high bond strength (cohesion) and high tack. Excellent adhesion to a very wide range of surfaces including low energy surfaces like PP and other plastics.

POLYACRYLATE, SEMI-PERMANENT

pH-neutral and environment friendly. It offers semi-permanent properties allowing removability from a wide variety of substrates over a long period of time.

POLYACRYLATE, REMOVABLE

Polyacrylate, solvent-free, which provides superior ageing and weatherability performance. This adhesive is pH-neutral and environment friendly. It offers removable properties with very low residues from a wide variety of substrates over a long period of time.

MODIFIED POLYACRYLATE, PERMANENT

Modified polyacrylate, solvent-free, which shows increased adhesion over time and offers superior ageing and weatherability performance. This adhesive provides excellent adhesion to a wide range of surfaces including low energy substrates such as PP and other plastics.

PRINT PRINTING FILMS

POLYACRYLATE, PERMANENT (TRANSPARENT OR GREY ADHESIVE COLOUR)

Polyacrylate, solvent-free, which provides superior ageing and weatherability and UV performance. This adhesive is repositionable, pH-neutral and environment friendly. It shows a combination of high bond strength, high cohesion and tack. It offers excellent adhesion to a very wide range of surfaces; including low energy surfaces like PP and other plastics. This adhesive is highly water and solvent resistant and therefore makes bonding on wet surfaces possible; allowing easy, bubble free and repositionable application possible.

The grey coloured adhesive increases the opacity to give high hiding power, while the bright whiteness of the printing surface is maintained.

POLYACRYLATE, SEMI-PERMANENT (GREY COLOURED)

Polyacrylate, solvent-free, which provides superior ageing and weatherability and UV performance. This adhesive is repositionable, pH-neutral and environment friendly. It provides semi-permanent properties and it is removable after a longer period. It additionally shows a combination of high bond strength, high cohesion and tack. It offers excellent adhesion to a very wide range of surfaces; including low energy surfaces like PP and other plastics. This adhesive is highly water and solvent resistant and therefore makes bonding on wet surfaces possible; allowing easy, bubble free and repositionable application possible.

GUARD LAMINATION FILMS

POLYACRYLATE, PERMANENT

Polyacrylate, solvent-free, which provides superior ageing, weatherability and UV performance. The adhesive is pH-neutral and environment friendly, giving the enhanced benefit of avoiding discoloration of the print or inkjet media. This adhesive offers extremely high transparency. It shows an excellent combination of high bond strength, initial tack allied to excellent laminating properties and flow characteristic (no silvering). In addition this adhesive provides excellent adhesion to printed and unprinted medias; such as films, paper, photos and plates. This adhesive is highly water and solvent resistant and therefore makes bonding on wet surfaces possible allowing easy, bubble free and repositionable application possible.

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