DOUBLE-SIDED
SINGLE-SIDED
TECHNICAL
ADHESIVE TAPES

PREMIUM QUALITY
IS OUR STANDARD
CARRIER MATERIALS

Scrim
A scrim improves product dimensional stability to help reduce excessive tape elongation during a lamination process. In addition a scrim improves adhesive anchorage on a substrate to ensure good, long term bonding.

Tissue
A tissue significantly improves product dimensional stability to prevent the tape from stretching during a lamination process. In addition a tissue provides better adhesive anchorage of the product within a laminate resulting in less adhesive being lost into foam-cells when laminating open-cell foams.

Transfer
A transfer tape is an unsupported adhesive film without a carrier. Transfer tapes are mostly used for laminating smooth, closed-cell or lightly structured substrates and foams. Transfer tapes >80 µm thickness can also be effectively used on rough and structured surfaces.

Polyethylene (PE)
PE films are typically soft, extremely elastic with very good ageing, chemical and water resistance. Often UV-stabilisers are added to PE to improve outdoor ageing resistance. Because of these properties PE is commonly used as the tape substrate of single-sided building tapes for bonding indoor and outdoor membranes and barriers in the building and construction industries.

Polyvinylchloride (PVC)
PVC films possess excellent overall ageing performance especially UV and weathering resistance. With this in mind PVC films are often used for outdoor applications. PVC films used in the self-adhesive tape industry are typically flame resistant and will self extinguish when a flame is removed. This property makes them highly suitable for applications where specific fire prevention regulations are required.

Polyethylene terephthalate (PET)
PET films are very temperature resistant. They provide an excellent dimensional stability together with stiffness and high tear strength even using very thin films. PET is resistant to a wide variety of corrosive chemicals including acids, bases, solvents and oils. Due to its high transparency it is often used where optical clarity is a requirement in a double sided tape.

Special paper
This specially coated paper shows a good dimensional stability even under influence of high humidity. It is designed for ease of tear which makes it very easy to handle when in use.

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RELEASE LINER

Description of the most commonly used paper- and film-based liners, with single or double sided silicone release coating

ATP uses exclusively liner material with an excellent and consistent quality

Paper Liner 90 g/m² yellow
High density glassine paper with a uniform surface for an optimal coating quality

- Small thickness tolerance
- Good die-cutting properties
- Good dimensional stability

A large variety of release values are possible, also with differential release for double-sided silicone coatings. From very light to high release

Paper Liner 120 g/m² white
High density glassine paper with a uniform surface for an optimal coating quality

Advantages:
- Excellent tear resistance – ideal for kiss-cut process (guaranteed clean cut)
- Good delivery of die-cut parts due to high stiffness

Paper Liner 140 g/m² white PE-coated
Advantages:
- Excellent water and moisture resistance (Water-jet die-cutting)
- The PE-coating acts as a migration barrier preventing substances migrating and weakening the paper fibres
- Very good lay-flat properties
- High initial tear resistance
- Good tear propagation resistance

Polyolefinic Film Liner (PO-Liner in 60µm or 80µm)
Advantages compared to paper liner
- The best water and moisture resistance (Water-jet die-cutting)
- High initial tear resistance
- Good tear propagation resistance Suitable for down-draw process
- High flexibility
- Good puncture resistance
- Good heat-cut properties (hot-wire process)

PET Film Liner
Polyester (PET) transparent

Advantages
- Uniform thickness
- Very small thickness tolerance, +/- 3µm (excellent die-cutting and delivery properties)
- High transparency
- Very high tear resistance
- Excellent dimensional stability
- High temperature resistance

Liners with different colours or with individual print are available on request Special liner products have minimum quantity restrictions.

We welcome the opportunity to support you with liner choice for your special application, e.g. antistatic, low/high friction, compostable.

Information to liner disposal can be found be found in the MSDS.
ADHESIVE DESCRIPTION

All adhesives described in this brochure are solvent and APEO-free.

PURE POLYACRYLICS – WITHOUT ADDITIONAL ADHESIVE RAW MATERIALS

- Very good ageing, weathering and UV-resistance
- High plasticiser resistance
- High cohesive strength
- High heat resistance
- Reduced total emissions
- Transparent film

AG - adhesive
The AG-adhesive is a pure polyacrylic with excellent ageing resistance, especially in terms of long term performance such as weathering and UV-resistance. It provides a superior combination of very high adhesion and exceptional cohesion with good tack performance. AG-adhesive also possesses very good adhesion to low surface energy substrates such as foams, PE and PP filmic products. It has exceptionally low emissions determined by VOC and fogging. The unique all-round performance of AG-adhesive confirms it’s suitability for many demanding applications, especially for the automotive industry.

AG-adhesive is also available as a flame-retardant/self-extinguishing version. Further information may be found in the relevant technical data sheet.

CS - adhesive
The CS-adhesive is a pure polyacrylic with good initial adhesion that increases with time resulting in strong final bond strength. It shows good plasticiser resistance to a variety of plasticisers. CS-adhesive has low VOC and fogging properties. The unique all-round performance of CS-adhesive confirms it’s suitability for many demanding applications including the automotive industry.

PF - adhesive
The PF-adhesive is a pure polyacrylic with good initial adhesion that increases with time resulting in strong final bond strength together with good overall ageing resistance. The PF-adhesive also possesses very good adhesion to low surface energy substrates such as PE, PP and EPDM products together with a very high heat resistance.

ADHESIVE FOR PRODUCT GM-107
The ER-adhesive is a pure polyacrylic with excellent adhesion to low surface energy substrates such as foams, PE and PP filmic products. It possesses excellent moisture and weathering resistance. The adhesive demonstrates residual-free, removable properties from many substrates after use.

ADHESIVE FOR PRODUCT GM-107 ER/P
The ER-adhesive is a pure polyacrylic with removable properties. It shows excellent, all-round ageing resistance especially in terms of long term performance, weathering and UV-resistance. The adhesive is pH-neutral having a unique combination of performance parameters including good repositioning, high final adhesion, very good cohesion and optimised tack. The adhesive is particularly suitable for laminating products to plastic boards.

ADHESIVE DESCRIPTION

ADHESIVE DESCRIPTION

MODIFIED POLYACRYLICS – CONTAINING TACKIFIER RESINS AND OTHER ADHESIVE RAW MATERIALS

- Fast adhesive strength build-up
- High tack
- High peel

Excellent adhesion to a wide variety of substrates including foams, plastic films, non-wovens, felts, metal, glass

Especially formulated for optimized adhesion to low surface energy substrates such as PE and PP films and non-wovens

AR - adhesive
The AR-adhesive is a modified polyacrylic with good initial adhesion that increases with time resulting in strong final bond strength. It also possesses excellent moisture and weathering resistance. AR-adhesive also possesses very good adhesion to low surface energy substrates such as foams, PE and PP filmic products together with a very high heat resistance.

AD- /AT - adhesive
The adhesive is a modified polyacrylic containing tackifier resins and other adhesive raw materials - High tack - High peel

Excellent adhesion to a wide variety of substrates especially with reference to ageing and weathering properties. It has very good initial tack with very high peel adhesion to a wide variety of low surface energy substrates such as foams, PE, PP and EPDM. These adhesives are an ideal lamination adhesive for a wide variety of laminates.

VS - adhesive
The VS-adhesive is a modified polyacrylic showing good adhesive properties including initial and long term adhesion with excellent shear resistance. It has good plasticiser resistance to many plasticised substrates. The VS-adhesive is optimised for ageing resistance and is especially useful where good heat resistance is required; short term it can withstand 200 °C and long term 120 °C.

WD - adhesive
The adhesive is a modified polyacrylic with high adhesion together with an excellent initial tack. It also has very good moisture and weathering resistance. The adhesive has been especially designed for excellent adhesion to PVC but it is also very suitable for bonding low surface energy substrates and non-wovens.

BAR - adhesive
The BAR-adhesive is a modified polyacrylic with excellent initial tack and high peel adhesion to a wide variety of substrates, especially bitumen. It also possesses good plasticiser resistance with very good adhesion to low surface energy substrates such as PE, PP and EPDM.
**DOUBLE-SIDED ADHESIVE TAPES WITH SCRIM CARRIER**

<table>
<thead>
<tr>
<th>Application</th>
<th>ATP product</th>
<th>Adhesive</th>
<th>Total thickness (mm)</th>
<th>Adhesive weight (g/m²)</th>
<th>Carrier</th>
<th>Liner</th>
<th>Peel adhesion (N/25 mm)</th>
<th>Dynamic shear resistance (N/mm²)</th>
<th>Tack (°C)</th>
<th>Heat resistance (FTM 18)</th>
<th>Dimensions (width in mm, length in lin. m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG-adhesive has excellent aging resistance, especially in terms of long-term performance such as weathering and UV resistance. It provides very high adhesion and exceptional cohesion with good tack performance. It is especially suitable for bonding various closed and open cell foams with small to medium pore size. AG-adhesive is also recommended to bond textiles and non-wovens. The unique all-round performance of AG-adhesive confirms it's suitability for many-demanding applications, especially for the automotive industry. AG-adhesive is also recommended to bond textiles and non-wovens. The unique all-round performance. It is especially suitable for bonding various closed and open cell foams with small to medium pore size. AG-adhesive is also recommended for use in flame-resistant/self-extinguishing types. Further information will be found in the relevant technical data sheet.</td>
<td>S-4610 AG</td>
<td>Polyacrylic, permanent</td>
<td>0.10</td>
<td>90</td>
<td>PES/PVA scrim</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>25</td>
<td>0.20</td>
<td>10</td>
<td>180</td>
<td>1000, 1500</td>
</tr>
<tr>
<td>The MF-adhesive is a modified polyacrylic with good, all-round adhesive properties including aging and weathering resistance. It has very good initial tack with very high peel adhesion to a wide variety of low surface energy substrates such as foams, PE, PP and EPDM. Those low coating weight products are suitable for bonding lightly structured and small pore diameter cellular foams.</td>
<td>S-4606 MF</td>
<td>Polyacrylic, modified, permanent</td>
<td>0.06</td>
<td>50</td>
<td>PES/PVA scrim</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>20</td>
<td>0.18</td>
<td>10</td>
<td>90</td>
<td>1000</td>
</tr>
<tr>
<td>The SH-adhesive provides high adhesion combined with excellent initial tack, especially for low surface energy substrates. The bonded adhesive also provides for good aging and weathering resistance.</td>
<td>S-4615 SH</td>
<td>Polyacrylic, modified, permanent</td>
<td>0.12</td>
<td>110</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>25</td>
<td>0.13</td>
<td>17</td>
<td>90</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>The AD adhesive provides high adhesion, excellent tack and shear strength together with good moisture resistance. Additionally, it offers excellent cohesion to cold, damp surfaces. The product is especially designed to bond to low surface tension substrates including PE, PP and various non-wovens. The high coating weight ensures good bonding to textile, irregular and rough surfaces. It is ideally suited for large pore diameter, open cell foams.</td>
<td>S-4615 AD</td>
<td>Polyacrylic, modified, permanent</td>
<td>0.15</td>
<td>140</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>30</td>
<td>0.15</td>
<td>24</td>
<td>80</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>Available on request.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>S-4615 AD PO80</td>
<td>Polyacrylic, modified, permanent</td>
<td>0.15</td>
<td>140</td>
<td>PES/PVA scrim</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>30</td>
<td>0.15</td>
<td>24</td>
<td>80</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>S-4624 AD PO80</td>
<td>Polyacrylic, modified, permanent</td>
<td>0.24</td>
<td>230</td>
<td>PES/PVA scrim</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>37</td>
<td>0.14</td>
<td>26</td>
<td>80</td>
<td>1000</td>
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</tr>
</tbody>
</table>
| ATP produces low emission adhesive tape systems...
## DOUBLE-SIDED PRODUCTS FOR TECHNICAL APPLICATIONS

### Pure and modified polyacrylcs with tissue carrier (Product code S-42..) also available with differentiated adhesive coating weights, e.g. S-4212 MF 45/65

<table>
<thead>
<tr>
<th>Application</th>
<th>ATP product</th>
<th>Adhesive</th>
<th>Total Thickness</th>
<th>Adhesive weight</th>
<th>Carrier</th>
<th>Liner</th>
<th>Peel adhesion (N/25 mm) to steel, based on Afera 5001</th>
<th>Dynamic shear resistance (°C) according to ATP test method AA-B-12-07</th>
<th>Heat resistance (°C)</th>
<th>Dimensions (width in mm, length in lin. m)</th>
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<tbody>
<tr>
<td>AG-adhesive</td>
<td>S-4210 AG</td>
<td>Polyacrylic, permanent</td>
<td>0.10 mm</td>
<td>90 g/m²</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>24</td>
<td>0.22</td>
<td>10</td>
<td>180</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>S-4215 AG</td>
<td>Polyacrylic, modified, permanent</td>
<td>0.15 mm</td>
<td>140 g/m²</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>26</td>
<td>0.22</td>
<td>13</td>
<td>180</td>
<td>1000</td>
</tr>
<tr>
<td>PF-adhesive</td>
<td>S-4210 PF</td>
<td>Polyacrylic, permanent</td>
<td>0.10 mm</td>
<td>90 g/m²</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>23</td>
<td>0.25</td>
<td>9</td>
<td>160</td>
<td>1000</td>
</tr>
<tr>
<td>MF-adhesive</td>
<td>S-4210 MF</td>
<td>Polyacrylic, modified, permanent</td>
<td>0.10 mm</td>
<td>90 g/m²</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>25</td>
<td>0.21</td>
<td>10</td>
<td>90</td>
<td>1000, 1250, 1500</td>
</tr>
<tr>
<td></td>
<td>S-4212 MF</td>
<td>Polyacrylic, modified, permanent</td>
<td>0.12 mm</td>
<td>110 g/m²</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>26</td>
<td>0.20</td>
<td>12</td>
<td>90</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>S-4212 MF 45/65</td>
<td>Polyacrylic, modified, permanent</td>
<td>0.12 mm</td>
<td>65 g/m²/closed side: 45 g/m²</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>26 / 19</td>
<td>0.20</td>
<td>12</td>
<td>90</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>S-4215 MF</td>
<td>Polyacrylic, modified, permanent</td>
<td>0.15 mm</td>
<td>140 g/m²</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>30</td>
<td>0.19</td>
<td>15</td>
<td>90</td>
<td>1000</td>
</tr>
<tr>
<td>AR-adhesive</td>
<td>S-4213 AR</td>
<td>Polyacrylic, modified, permanent</td>
<td>0.13 mm</td>
<td>130 g/m²</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>27</td>
<td>0.24</td>
<td>14</td>
<td>160</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>S-4216 AR</td>
<td>Polyacrylic, modified, permanent</td>
<td>0.16 mm</td>
<td>150 g/m²</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>29</td>
<td>0.21</td>
<td>17</td>
<td>140</td>
<td>1000</td>
</tr>
<tr>
<td>VS-adhesive</td>
<td>S-4210 VS</td>
<td>Polyacrylic, modified, permanent</td>
<td>0.10 mm</td>
<td>90 g/m²</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>15</td>
<td>0.26</td>
<td>7</td>
<td>200</td>
<td>1000, 1250, 1500</td>
</tr>
<tr>
<td></td>
<td>S-4210 VS 120</td>
<td>Polyacrylic, modified, permanent</td>
<td>0.10 mm</td>
<td>90 g/m²</td>
<td>Glassine paper, white 120 g/m², double-sided siliconised</td>
<td>15</td>
<td>0.26</td>
<td>7</td>
<td>200</td>
<td>1000</td>
</tr>
</tbody>
</table>

AG-adhesive has excellent ageing resistance, especially in terms of long-term performance such as weathering and UV resistance. It provides very high adhesion and exceptional cohesion with good tack performance. It is especially suitable for bonding a wide variety of surfaces and open-cell foams with small to medium pore size. AG-adhesive is also recommended to bond textiles and non-wovens. The unique all-round performance of AG-adhesive confirms its suitability for many demanding applications, especially for the automotive industry. AG-adhesive is also available in a flame-retardant / self-extinguishing type. Further information will be found in the relevant technical data sheet.

The PF-adhesive is a pure polyacrylic with good initial adhesion that increases with time resulting in strong final bond strength together with good overall ageing resistance and a high heat resistance. The PF-adhesive also possesses very good adhesion to low energy substrates such as PE, PP and EPDM products. The products are highly suitable for laminates subjected to heat but also for bonding a wide variety of foams.

The MF-adhesive is a modified polyacrylic with good, all-round adhesive properties including ageing and weathering resistance. It has very good initial adhesion with very high peel strength to a wide variety of low surface energy substrates such as foams, PE, PP and EPDM. These low coating weight products are suitable for bonding lightly structured and small pore diameter cellular foams. The higher coating weights are very suitable for critical and non-polar substrates, large pore diameter, open cell foams and irregular, rough surface materials.

The AR-adhesive is a modified polyacrylic with good initial adhesion that increases with time resulting in strong final bond strength. It also possesses excellent moisture and weathering resistance. AR-adhesive also possesses very good adhesion to low surface energy substrates such as foams, PE and PP filmic products together with a very high heat resistance. This product highly suitable for use in the automobile industry.

The VS-adhesive is a modified polyacrylic showing good adhesive properties including initial and long term adhesion with excellent shear resistance. It has good plasticiser resistance to many plasticised substrates. The VS-adhesive is optimized for ageing resistance and is especially useful where good heat resistance is required; short term it can withstand 200°C and long term 120°C. This product is especially designed for use as a splicing tape in the paper and carbon industry but it can also be used for foam lamination where good repositionability is required.

Special Note: all values listed are guideline values only. They may not be construed as product specifications which can be found in the current, product technical data sheet.

...REACH and RoHs compliant Products...
DOUBLE-SIDED TRANSFER PRODUCTS FOR TECHNICAL APPLICATIONS

Pure and modified polyacrylics transfer film (product code S-47....) also available with «Finger-Lift» and as pattern striped-coating

<table>
<thead>
<tr>
<th>Application</th>
<th>ATP product</th>
<th>Adhesive</th>
<th>Total thickness</th>
<th>Adhesive weight</th>
<th>Carrier</th>
<th>Liner</th>
<th>Peel adhesion (N/25 mm to steel, based on ATP 1200)</th>
<th>Dynamic shear resistance (N/mm²), based on FTM 18</th>
<th>Tack (N/25 mm to PVC, based on EN 1351)</th>
<th>Heat resistance (°C) according to ATP test method A/S 1047</th>
<th>Dimensions (width in mm, length in m)</th>
</tr>
</thead>
</table>
| AG-adhesive has excellent ageing resistance, especially in terms of long term performance such as weathering and UV-resistance. It provides very high adhesion and exceptional cohesion with good tack performance. It is especially suitable for bonding a wide variety of surfaces, films, paper, metal and various open-cell foams with small to medium pore size. AG-adhesive is also recommended to bond textiles and non-wovens. The unique all-round performance of AG-adhesive confirms its suitability for many demanding applications, especially for the automotive industry. AG-adhesive is also available in a flame-retardant, self-extinguishing type. Further information will be found in the relevant technical data sheet.

| | | | | | | | | | | | | |
| The PF-adhesive is a pure polyacrylic with good initial adhesion that increases with time resulting in strong final bond strength together with good overall ageing resistance and a high heat resistance. The PF-adhesive also possesses very good adhesion to low surface energy substrates such as PE, PP and EPDM products. The products are highly suitable for laminates subjected to heat but also for bonding a wide variety of foams.

| | | | | | | | | | | | | |
| The AR-adhesive is a modified polyacrylic with good initial adhesion that increases with time resulting in strong final bond strength. It also possesses excellent moisture and weathering resistance. AR-adhesive also possesses very good adhesion to low surface energy substrates such as foams, PE and PP filmic products together with a very high heat resistance. This product highly suitable for use in the automobile industry.

| | | | | | | | | | | | | |
| The MF-adhesive is a modified polyacrylic with good, all-round adhesive properties including ageing and weathering resistance. It has very good initial tack with very high peel adhesion to a wide variety of low surface energy substrates such as foams, PE, PP and EPDM. These low coating weight products are suitable for bonding tightly structured and small pore diameter cellular foams.

| | | | | | | | | | | | | |
| The BAR-adhesive is a modified polyacrylic with excellent initial tack and high peel adhesion to a wide variety of substrates, especially bitumen. It also possesses good plasticiser resistance with very good adhesion to low surface energy substrates such as PE, PP and EPDM. It is especially recommended for the bonding of sound deadening and insulation material.

| | | | | | | | | | | | | |
| The adhesive is a modified polyacrylic with high adhesion together with an excellent initial tack. It also has very good moisture and weathering resistance. The adhesive has been especially designed for excellent adhesion to PVC but is also very suitable for bonding low surface energy substrates and non-wovens. Due to its unique formulation, structure and thickness it is recommended for use on very rough surfaces, especially when bonding heavy PVC films and banners.

<table>
<thead>
<tr>
<th>Application</th>
<th>ATP product</th>
<th>Adhesive</th>
<th>Total thickness</th>
<th>Adhesive weight</th>
<th>Carrier</th>
<th>Liner</th>
<th>Peel adhesion (N/25 mm to steel, based on ATP 1200)</th>
<th>Dynamic shear resistance (N/mm²), based on FTM 18</th>
<th>Tack (N/25 mm to PVC, based on EN 1351)</th>
<th>Heat resistance (°C) according to ATP test method A/S 1047</th>
<th>Dimensions (width in mm, length in m)</th>
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</thead>
<tbody>
<tr>
<td>S-4703 AG 80w</td>
<td>Polyacrylic, permanent</td>
<td>0.03 mm</td>
<td>30 g/m²</td>
<td>Adhesive film without carrier</td>
<td>Glassine paper, white 80 g/m², double-sided siliconised</td>
<td>19</td>
<td>0.23</td>
<td>6</td>
<td>200</td>
<td>1000</td>
<td>1000</td>
</tr>
<tr>
<td>S-4705 AG</td>
<td>Polyacrylic, permanent</td>
<td>0.05 mm</td>
<td>50 g/m²</td>
<td>Adhesive film without carrier</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>23</td>
<td>0.22</td>
<td>8</td>
<td>200</td>
<td>1000</td>
<td>1000</td>
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<tr>
<td>S-4707AG</td>
<td>Polyacrylic, permanent</td>
<td>0.07 mm</td>
<td>70 g/m²</td>
<td>Adhesive film without carrier</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
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<td>10</td>
<td>200</td>
<td>1000</td>
<td>1000</td>
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<tr>
<td>S-4710 AG</td>
<td>Polyacrylic, permanent</td>
<td>0.10 mm</td>
<td>100 g/m²</td>
<td>Adhesive film without carrier</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>27</td>
<td>0.21</td>
<td>12</td>
<td>200</td>
<td>1000</td>
<td>1500</td>
</tr>
<tr>
<td>S-4711AG PO80</td>
<td>Polyacrylic, permanent</td>
<td>0.10 mm</td>
<td>100 g/m²</td>
<td>Adhesive film without carrier</td>
<td>Glassine paper, white 80 µm, double-sided siliconised</td>
<td>27</td>
<td>0.21</td>
<td>12</td>
<td>200</td>
<td>1000</td>
<td>1000</td>
</tr>
<tr>
<td>S-4710 PF</td>
<td>Polyacrylic, permanent</td>
<td>0.10 mm</td>
<td>100 g/m²</td>
<td>Adhesive film without carrier</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>24</td>
<td>0.24</td>
<td>14</td>
<td>100</td>
<td>160</td>
<td>1000</td>
</tr>
<tr>
<td>S-4710 AR</td>
<td>Polyacrylic, permanent</td>
<td>0.07 mm</td>
<td>70 g/m²</td>
<td>Adhesive film without carrier</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>27</td>
<td>0.2</td>
<td>12</td>
<td>160</td>
<td>1000</td>
<td>1250</td>
</tr>
<tr>
<td>S-4710 AR</td>
<td>Polyacrylic, modified, permanent</td>
<td>0.10 mm</td>
<td>100 g/m²</td>
<td>Adhesive film without carrier</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>28</td>
<td>0.16</td>
<td>17</td>
<td>140</td>
<td>1250</td>
<td>1500</td>
</tr>
<tr>
<td>S-4705 MF</td>
<td>Polyacrylic, modified, permanent</td>
<td>0.05 mm</td>
<td>50 g/m²</td>
<td>Adhesive film without carrier</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>24</td>
<td>0.22</td>
<td>12</td>
<td>90</td>
<td>1000</td>
<td>1500</td>
</tr>
<tr>
<td>S-4707 MF</td>
<td>Polyacrylic, modified, permanent</td>
<td>0.07 mm</td>
<td>70 g/m²</td>
<td>Adhesive film without carrier</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>26</td>
<td>0.21</td>
<td>12</td>
<td>90</td>
<td>1000</td>
<td>1250, 1500</td>
</tr>
<tr>
<td>S-4710 MF</td>
<td>Polyacrylic, modified, permanent</td>
<td>0.10 mm</td>
<td>100 g/m²</td>
<td>Adhesive film without carrier</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>27</td>
<td>0.20</td>
<td>15</td>
<td>90</td>
<td>1000</td>
<td>1250, 1500</td>
</tr>
<tr>
<td>S-4705 BAR</td>
<td>Polyacrylic, modified, permanent</td>
<td>0.05 mm</td>
<td>50 g/m²</td>
<td>Adhesive film without carrier</td>
<td>Glassine paper, yellow 90 g/m², double-sided siliconised</td>
<td>25</td>
<td>0.27</td>
<td>12</td>
<td>90</td>
<td>1000</td>
<td>1500</td>
</tr>
<tr>
<td>S-4705 BAR PO60</td>
<td>Polyacrylic, modified, permanent</td>
<td>0.05 mm</td>
<td>50 g/m²</td>
<td>Adhesive film without carrier</td>
<td>Glassine paper, white 60 µm, double-sided siliconised</td>
<td>25</td>
<td>0.27</td>
<td>12</td>
<td>90</td>
<td>1000</td>
<td>1500</td>
</tr>
</tbody>
</table>

Special Note: All values listed are guideline values only. They may not be construed as product specifications which can be found in the current, product technical data sheet.
**SINGLE AND DOUBLE-SIDED PRODUCTS WITH VARIOUS CARRIERS FOR TECHNICAL APPLICATIONS**

<table>
<thead>
<tr>
<th>Application</th>
<th>ATP product</th>
<th>Adhesive</th>
<th>Total Thickness</th>
<th>Adhesive weight</th>
<th>Carrier</th>
<th>Liner</th>
<th>Peel adhesion (N/25 mm) to steel</th>
<th>Dynamic shear resistance (N/mm²)</th>
<th>Tack (N/25 mm to PE)</th>
<th>Heat resistance (°C)</th>
<th>Dimensions (width in mm, length in lin. m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>The LW adhesive is a modified polyacrylic with good initial adhesive that increases with time resulting in strong final bond strength. It possesses good weathering resistance together with very good adhesion to low surface energy substances such as PE, PP and EPM.</td>
<td>S-4106 LW</td>
<td>Polyacrylic modified, permanent</td>
<td>0.06 mm</td>
<td>50 g/m²</td>
<td>PET-film transparent</td>
<td>Glassine paper, blue 95 g/m², double-sided-siliconised (S-4106 LB gelber Liner)</td>
<td>20</td>
<td>0.20</td>
<td>10</td>
<td>100</td>
<td>1000</td>
</tr>
<tr>
<td>The CS adhesive is a pure polyacrylic with good initial adhesion that increases with time resulting in strong final bond strength. It shows good plasticiser resistance to a variety of plasticisers. CS adhesive has low VOC and fogging properties. The unique all-round performance of CS adhesive confirms its suitability for many demanding applications including the automotive industry.</td>
<td>S-4109 CS</td>
<td>Polyacrylic, permanent</td>
<td>0.09 mm</td>
<td>80 g/m²</td>
<td>Glassine paper, blue 95 g/m², double-sided-siliconised</td>
<td>16</td>
<td>0.27</td>
<td>6</td>
<td>200</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>This adhesive is a pure polyacrylic with removable properties. It shows excellent all-round aging resistance especially in terms of long-term performance, weathering and UV resistance. The adhesive demonstrates residue-free, removable properties from many substrates after use. The LB adhesive is a high-tack modified polyacrylic.</td>
<td>S-4111 F/LB</td>
<td>Polyacrylic, removable/permanent (modified)</td>
<td>0.11 mm</td>
<td>50 g/m² / 50 g/m²</td>
<td>PET-film transparent</td>
<td>Special paper, white, 90 g/m², double-sided-siliconised</td>
<td>5 / 20</td>
<td>0.20</td>
<td>4 / 8</td>
<td>90</td>
<td>1040</td>
</tr>
<tr>
<td>Premium quality, crystal clear laminating film for the permanent bonding of very smooth substrates. Especially designed for self-adhesive mountings of photos and large format transparent films. Applications.</td>
<td>GM-107 CC</td>
<td>Polyacrylic, permanent</td>
<td>0.07 mm</td>
<td>60 g/m²</td>
<td>Special paper, white, 90 g/m², double-sided-siliconised</td>
<td>12</td>
<td>0.30</td>
<td>5</td>
<td>200</td>
<td>1040, 1300, 1400, 1550</td>
<td></td>
</tr>
<tr>
<td>The adhesive is a pure polyacrylic with excellent aging resistance including long-term performance, weathering and UV resistance. The adhesive is high cohesive having a unique combination of performance parameters including good equilaxing, high final adhesion, very good cohesion and optimised tack. The adhesive is particularly suitable for laminating products to low surface energy substances such as plastic boards.</td>
<td>GM-107 Q</td>
<td>Polyacrylic, permanent</td>
<td>0.07 mm</td>
<td>60 g/m²</td>
<td>PET-film transparent</td>
<td>Special paper, white, 90 g/m², double-sided-siliconised</td>
<td>12</td>
<td>0.30</td>
<td>5</td>
<td>200</td>
<td>1040, 1300, 1400, 1550</td>
</tr>
<tr>
<td>This adhesive is a pure polyacrylic with removable properties. It shows excellent all-round aging resistance especially in terms of long-term performance, weathering and UV resistance. The adhesive is high cohesive having a unique combination of performance parameters including good equilaxing, high final adhesion, very good cohesion and optimised tack. This adhesive demonstrates residue-free, removable properties from many substrates after use.</td>
<td>GM-107 ER/P</td>
<td>Polyacrylic, removable/permanent</td>
<td>0.07 mm</td>
<td>30 g/m² / 30 g/m²</td>
<td>Glassine paper, white 90 g/m², double-sided-siliconised</td>
<td>1 / 9</td>
<td>0.14</td>
<td>1 / 4</td>
<td>200</td>
<td>1040</td>
<td></td>
</tr>
<tr>
<td>This adhesive is a modified polyacrylic with good adhesive properties including initial and long-term adhesive with excellent cohesive resistance. It has good plasticiser resistance to many plasticised substrates. The VS adhesive is optimised for ageing resistance and is especially useful when high heat resistance is required; short term it can withstand 200°C and long term 120°C. This product is especially designed for use as a splicing tape in the paper and cotton industry but can also be used for heat lamination where good repositionability is required.</td>
<td>S-4311 VS</td>
<td>Polyacrylic modified, permanent</td>
<td>0.17 mm</td>
<td>140 g/m²</td>
<td>Kraft paper, white</td>
<td>Glassine paper, yellow 90 g/m², double-sided-siliconised</td>
<td>28</td>
<td>0.26</td>
<td>14</td>
<td>200</td>
<td>1000</td>
</tr>
<tr>
<td>This product has been specially designed for bonding profiles, skirtings, stats, battens and name-plate applications.</td>
<td>S-4425 AR</td>
<td>Polyacrylic modified, permanent</td>
<td>0.25 mm</td>
<td>170 g/m²</td>
<td>PVC-film white</td>
<td>Glassine paper, yellow 90 g/m², double-sided-siliconised</td>
<td>46</td>
<td>0.24</td>
<td>17</td>
<td>140</td>
<td>1000</td>
</tr>
<tr>
<td>This product has been specially designed for bonding profiles, skirtings, stats, battens and name-plate applications. Transparent Carrier</td>
<td>S-4513 M/FR</td>
<td>Polyacrylic modified, permanent</td>
<td>0.13 mm</td>
<td>85 g/m²</td>
<td>PP-film, transparent</td>
<td>Glassine paper, yellow 90 g/m², double-sided-siliconised</td>
<td>20</td>
<td>0.3</td>
<td>8</td>
<td>100</td>
<td>1000</td>
</tr>
<tr>
<td>This yellow, single-sided, high performance, adhesive tape is highly suitable for air- and wind tight bonding of all types of roofing membrane overlaps.</td>
<td>S-4332 AT/y</td>
<td>Polyacrylic modified, permanent</td>
<td>0.32 mm</td>
<td>200 g/m²</td>
<td>Special paper</td>
<td>Glassine paper, yellow 90 g/m², double-sided-siliconised</td>
<td>46</td>
<td>0.10</td>
<td>35</td>
<td>70</td>
<td>1000</td>
</tr>
<tr>
<td>This green, single-sided, high performance, adhesive tape provides high tack, great shear strength with excellent water and humidity resistance. It is highly recommended for bonding membranes in the roof construction industry. Applications include air- and wind tight sealing of vapour control, membrane overlaps and (circular) penetrations. It is also very suitable for both joints between wood-based panels, windows, casings, stats and battens.</td>
<td>S-4830 AT/D/g</td>
<td>Polyacrylic modified, permanent</td>
<td>0.30 mm</td>
<td>230 g/m²</td>
<td>PE-film, PE3/PVA diagonal scrim</td>
<td>Glassine paper, yellow 90 g/m², double-sided-siliconised</td>
<td>37</td>
<td>0.10</td>
<td>34</td>
<td>70</td>
<td>1020</td>
</tr>
</tbody>
</table>

**Pure and modified polyacrylcs with various carriers; heat-activated adhesive film without carrier (transfer)**

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<table>
<thead>
<tr>
<th>Application</th>
<th>ATP product</th>
<th>Adhesive weight</th>
<th>Carrier</th>
<th>Peel adhesion (N/25 mm) to steel</th>
<th>Dynamic shear resistance (N/mm²)</th>
<th>Tack (N/25 mm to PE)</th>
<th>Heat resistance (°C)</th>
<th>Dimensions (width in mm, length in m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>This transfer adhesive film is block-free at ambient temperatures. Heat activation is required to form a bond. The required minimum heat activation temperature is 100°C. The best bonding results are obtained through optimisation of process temperature, process pressure and time. It is highly recommended for bonding a wide variety of substrates including, metals (aluminium), wood, non-woven and textiles.</td>
<td>S-7705 HS 63x1290</td>
<td>50 g/m²</td>
<td>Adhesive film without carrier</td>
<td>Glassine paper, white, 63 g/m², double-sided-siliconised</td>
<td>Minimum heat-activation temperature 100°C</td>
<td>1290</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
HANDLING INSTRUCTIONS

The following handling instructions will help the user achieve optimum results during use of our products. Optimum bonding depends mainly on the following parameters; substrate surface and preparation, contact pressure and time, temperature and relative humidity. Our technical application division is at your disposal to give you advice for your materials and applications.

SURFACE SUBSTRATE CONDITION
The surfaces to be bonded must be dry and free from any contamination including dust, oils and fats, oxidation, release agents and any other contaminants. An optimised surface tension is essential for successful bonding.

SURFACE SUBSTRATE PREPARATION
The correct choice of surface cleaner depends on the surface properties. Essentially non-greasy cleaners are recommended including isopropanol and acetone. Cleaning cloths must be clean, grease and fat free with no loose fibres or cloth particles.

CONTACT PRESSURE
The bond strength is mainly dependant on an intimate contact between the adhesive and surface contact. High cohesion adhesives generally require a higher contact pressure. Bonding at lower temperatures will generally result in lower bond strengths.

CONTACT TIME
Depending on the adhesive type final bond strength will be achieved after 1 hour up to 72 hours.

BONDING PROCESS TEMPERATURE
We recommend that the product, substrate and environment should be between +15°C and 30°C. Ensure that the adhesive product and substrates are allowed time to adjust to the environment temperature before bonding.

PRODUCT STORAGE
The products should be stored in their original packaging under dry conditions, ideally at room temperature but not warmer than 30 °C. High relative humidity and direct sunlight must be avoided at all costs. Generally the cooler the product is stored the better the product quality. Transfer tape rolls with high adhesive thickness could show deformation after a few weeks. For specific storage details depending on product type and dimensions please contact ATP technical application division for advice.

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.

All our products are subjected to strict quality control in accordance with our total quality management system ISO/TS 16949, DIN EN ISO 9001, DIN EN ISO 14001 and ISO 50001. 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 is a leading manufacturer of high quality technical tape solutions for the automotive, foam, graphic, label, semi-structural composite, building and construction industries. With our extensive technical and marketing knowledge, our passion for developing customer-focused solutions and our committed employees that go that little bit further, success with ATP is a given.

ATP is producing high quality single and double sided adhesive tapes on very modern coating machines in Germany since 1991. Using a broad range of adhesive and support materials, ATP produces single and double sided pressure sensitive adhesive tapes, transfer tapes and heat-seal films. The adhesive formulations are solvent free and are exclusively developed by ATP. ATP’s production methods meet the most modern technological requirements. The products are developed and manufactured under the DQS total quality management system and ATP is accredited according to ISO 9001, ISO 14001, ISO 50001 and ISO/TS 16949 systems.

ATP always strives to exceed customer expectations by developing customer aligned solutions which offer technical advantages, competitively and quickly. Please contact your local sales representative for further information.

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DQS-certified management system; certificate registration-nr. 064179.
ATP adhesive systems AG; ATP adhesive systems GmbH;
ATP ALLTAPE Klebetechnik GmbH certified according to ISO/TS 16949 and ISO 9001.
ATP ALLTAPE Klebetechnik GmbH certified according to ISO 14001 and ISO 50001.