tesa Solutions for the Flexible Packaging Industry

Optimizing the Entire Printing Process
Reliable Technique, Proven Performance: tesa® Softprint 20-mil

This tesa solution was developed and tested in close cooperation with well-known press manufacturers under a variety of typical production conditions. Their unanimous assessment:

The details make the difference!

- The PE (polyethylene) foam has an optimized recovery capability, supporting consistent print results at higher speeds.
- Higher foam elasticity transmits even the finest plate details.
- The properties of the PE (polyethylene) foam used have been optimized with thickness tolerances in mind; the foam has been neither thermally nor mechanically manipulated during production.
- The consistent tape thickness supports consistent ink distribution.
- Set-up time is also reduced, which is especially important for repeat jobs.

tesa® Softprint – Optimum Thickness Tolerances:

- Always the right adhesive strength, which ensures:
  - Simple repositioning of tape and plate before printing
  - High bond strength during printing, eliminating edge-lifting
  - Low increase in peel adhesion allows for simple, residue-free demounting of both plate and tape after printing

<table>
<thead>
<tr>
<th>Recovery Rate</th>
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<tr>
<td>The secret of tesa® Softprint foam:</td>
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<tr>
<td>- Small, completely closed, spherical foam-cells</td>
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<td>- Evenly distributed cell structure</td>
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<td>- Stable foam structure at speeds up to 600 meters/minute</td>
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<tr>
<th>Printing Set-up</th>
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<td>Set-up time</td>
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<tr>
<th>Increase of Peel Adhesion</th>
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<tr>
<td>tesa adhesive tape Market standard</td>
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<tr>
<td>- Adhesion in %</td>
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<tr>
<td>- Market standard</td>
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<td>- Time in hours</td>
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<th>Comparison of Print Results</th>
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<td>Standard plate mounting tape</td>
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<tr>
<td>tesa® 52223 Softprint x-Soft</td>
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With conventional plate mounting tapes, press vibrations cause unwanted stripes, which means an imperfect print image. Block and even screen printed areas appear faint.

tesa® 52223 helps to minimize the unwanted stripes, which is achieved by absorbing and minimizing the vibrations during printing.
Succeed with tesa –
Take Advantage of the Best Performance

Printing is a business where both excellent print results and high process efficiency go hand in hand.

For many years, tesa® Softprint plate mounting tapes have delivered on both these counts, helping printers to optimize print results and improve processes. With our industry experience and understanding of the total process, tesa provides adhesive solutions for every step of the flexible packaging print-run.

In combination with the unrivaled service provided by our industry experts across the world, tesa provides packaging printers with ideas to optimize their processes, along with the means to make it happen.

With a comprehensive range of tapes for flexo printers, tesa offers solutions to fulfill every requirement:

-Plate mounting tapes for highly demanding print motifs
-Graduated adhesive strengths for the latest sleeve qualities
-tesa® EasySplice® FilmLine for high speed flying splice processes
The starting point for achieving a new dimension of efficiency – tesa® 51905 EasySplice® FilmLine and tesa® 51910 EasySplice® FilmLine PLUS – now for flexo printers, too!

Since 2000, tesa has led the application of modern straight-line splicing in the paper-producing and converting industries. This innovative concept has also come to the film-processing industry with tesa® EasySplice® FilmLine and tesa® EasySplice® FilmLine PLUS.

tesa® EasySplice® FilmLine is regarded as the standard method for splicing in the package printing industry due to improvements in efficiency. Now, the significantly enhanced product, tesa® EasySplice® FilmLine PLUS, enables manufacturers of very thin, stretchy, and critical films and foils to save time and money too!
Roller Wrapping
Keeps the printed substrate evenly distributed during printing; ensures greater reliability and continuity in the print run; the adhesive allows easy removal, even after a prolonged period.

- tesa® 4563 (smooth)
- tesa® 4863 (embossed)

Plate Mounting
The characteristics of foam quality, along with other variables, have a crucial effect on print result. All tesa plate mounting tapes are characterized by:
- Constant tape thickness
- Optimized recovery rate
- High and even foam elasticity

The formula for meeting increased demand for the best flexo printing is: the finer the dots, the harder the plate, and the softer the tape.

Digitally produced plates are harder and allow the finest dots, so a softer tape is needed.

tesa has adapted its assortment of foam-based plate mounting tapes to meet the demands of today’s different applications.

Edge Sealing
tesa supplies plate edge-sealing products with a broad range of benefits. The adhesive sticks to photopolymer plates and is subsequently easy to remove without leaving any residue.

- tesa® 53016
- tesa® 53017

Failure Flagging
Varied color offering allows for distinct imperfection marking

- tesa® 4104

Core Starting
Sufficient adhesion properties to attach the web to the core

- tesa® 4959

End-Tabbing
Safe bonding on all substrates; in different colors or transparent version

- tesa® 4104
tesa Flexible Packaging Tapes

<table>
<thead>
<tr>
<th>Application</th>
<th>Product</th>
<th>Mounting</th>
<th>Re-positioning</th>
<th>Edge Fixation</th>
<th>Demounting Plate</th>
<th>Demounting Tape</th>
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<tbody>
<tr>
<td><strong>Plate Mounting</strong></td>
<td><strong>20 mil PE Foam</strong></td>
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**Application**

- **Splicing**
  - **tesa® 51905 EasySplice® FilmLine**
  - **tesa® 51910 EasySplice® FilmLine PLUS**
  - **Paper**
  - **Red**
  - **Modified rubber**
  - **4 mil**
- **Edge Sealing**
  - **tesa® 53016**
  - **S-PVC**
  - **Yellow**
  - **Modified rubber**
  - **5.3 mil**
  - **tesa® 53017**
  - **S-PVC**
  - **White**
  - **Modified rubber**
  - **6 mil**
- **Roller Wrapping**
  - **tesa® 4563**
  - **Si-coat® fabric**
  - **Gray, Smooth**
  - **Modified rubber**
  - **16 mil**
  - **tesa® 4863**
  - **Si-coat fabric**
  - **Gray, Structured**
  - **Modified rubber**
  - **25 mil**
- **Core Starting**
  - **tesa® 4959**
  - **Non-woven**
  - **Translucent**
  - **Modified acrylic**
  - **4.5 mil**
- **Flagging/End-Tabbing**
  - **tesa® 4104**
  - **H-PVC®**
  - **8 Colors**
  - **Rubber**
  - **2.5 mil**

**Notes:**

- PE - polyethylene
- S-PVC - soft-polyvinyl chloride
- Si-coat - silicone rubber-coated fabric
- H-PVC - hard-polyvinyl chloride

tesa products prove their impressive quality day in day out in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless, tesa tape, inc. can make no warranties, expressed or implied, including, but not limited to any implied warranty or merchantability or fitness for a particular purpose. The user, therefore, is responsible for determining whether the tesa product is fit for a particular purpose and suitable for the user’s method of application. If you are in any doubt, our technical support staff will be glad to advise you.

For 50 years, A&V has supplied materials and equipment that are good for you and good for the environment.