

# tesa Solutions for Label Printing

Optimizing the Entire Label Printing Process



## At a Glance: Reliable Technique, Proven Performance, Better Results

The simple, reliable handling of tesa products makes a noticeable difference in the work of a label printer. These products save time, render some steps redundant, and make a significant contribution to top-quality print results.



### Benefits You Really Notice

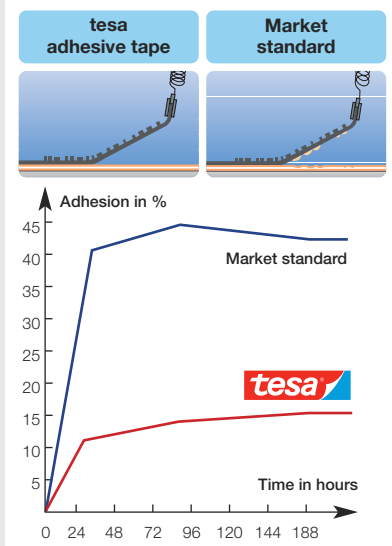
tesa adhesive tape	Market standard
<p>Set-up time</p>	

### Optimum thickness tolerances:

- **Stable print results**  
The constant tape thickness supports consistent ink distribution. Set-up time is also reduced, which is especially important for repeat jobs.
- **Optimal register**  
The consistent tape thickness also supports perfection of register.
  - Constant circumference of printing cylinder
  - Fast set-up of die-cutting unit – less waste
  - Die-cutting precision

**tesa® Softprint**

- **Recovery rate**  
Magnification under scanning electron microscope reveals the secret of tesa® Softprint foam:
  - Small, completely closed, spherical foam-cells
  - Very evenly distributed cell structure over the entire dimension of the tape



### Always the right adhesive strength, which ensures:

- Simple repositioning of tape and plate before printing
- High bond strength during printing, eliminating edge-lifting, even when tape is used a second time
- Low increase in peel adhesion allows for simple, residue-free demounting of plate and tape

## Improve Your Process – Succeed with tesa

Label designs continue to become more and more demanding, with both product appeal and large amounts of information to consider. The drive for optimization of print results means that process efficiency has even greater significance in modern label printing than ever before.

tesa solutions for label printers include all parts of the process. tesa® Softprint plate mounting tapes optimize results and achieve process excellence, while innovations like tesa® UV Strips ensure reliable process output.

These adhesive solutions, coupled with the superior service provided by tesa industry experts worldwide, make tesa the adhesive partner to the label printing industry in the 21st Century.



### Permanent Splicing

For preparation of butt splices without a liner; the sufficient adhesion and tensile strength are suitable for all materials with alternatives for higher temperatures.

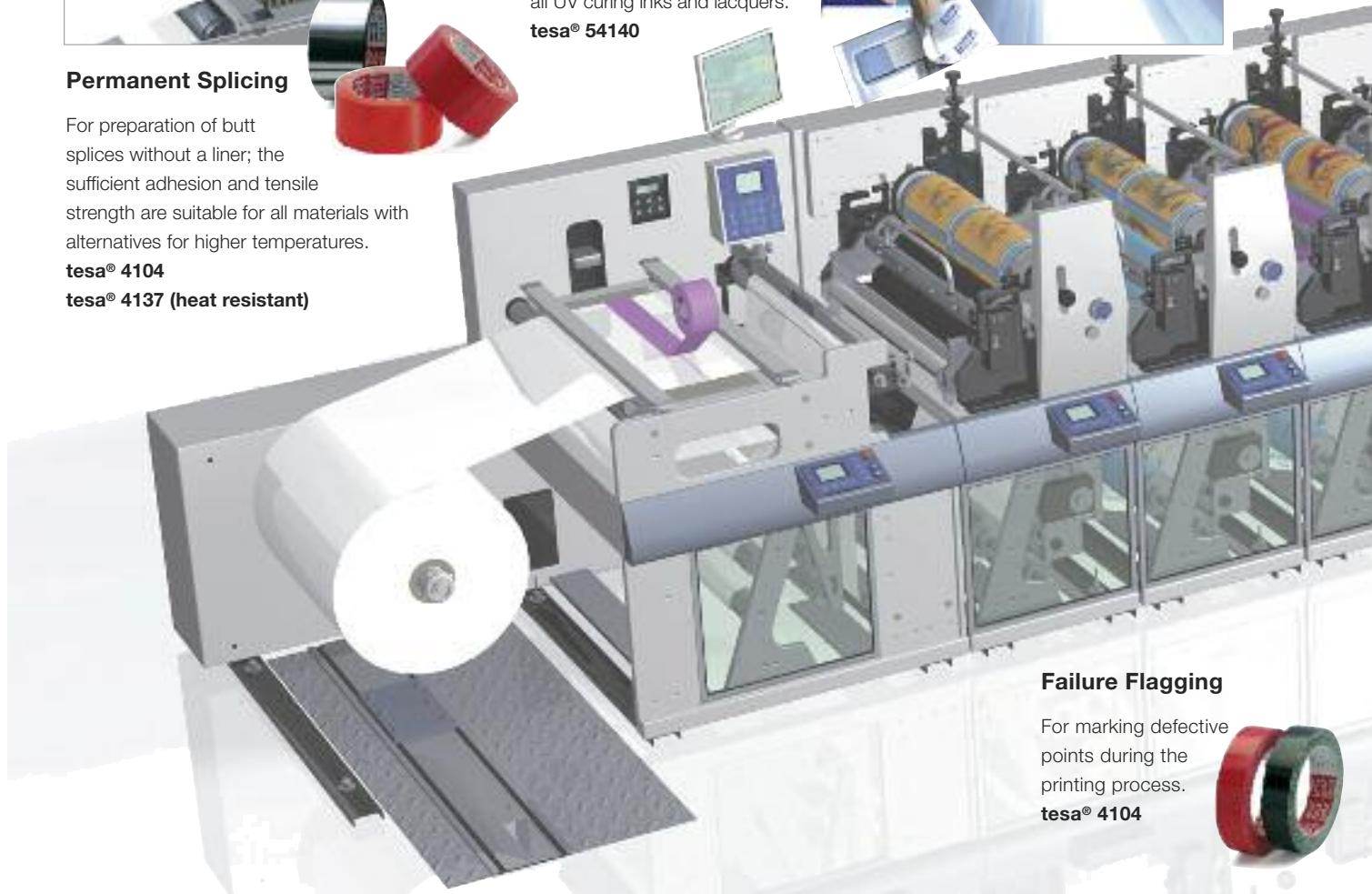
**tesa® 4104**

**tesa® 4137 (heat resistant)**

### UV Measuring

tesa® UV Strips offer a fast and easy way to measure UV (ultraviolet) light doses. The results of the system are unique in constancy and reliability. It can be used for all UV curing inks and lacquers.

**tesa® 54140**



### Failure Flagging

For marking defective points during the printing process.

**tesa® 4104**

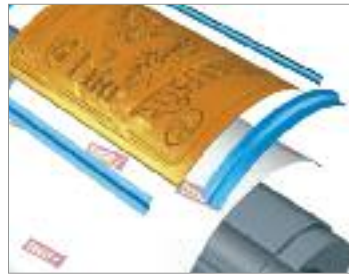




### Roller Wrapping

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.

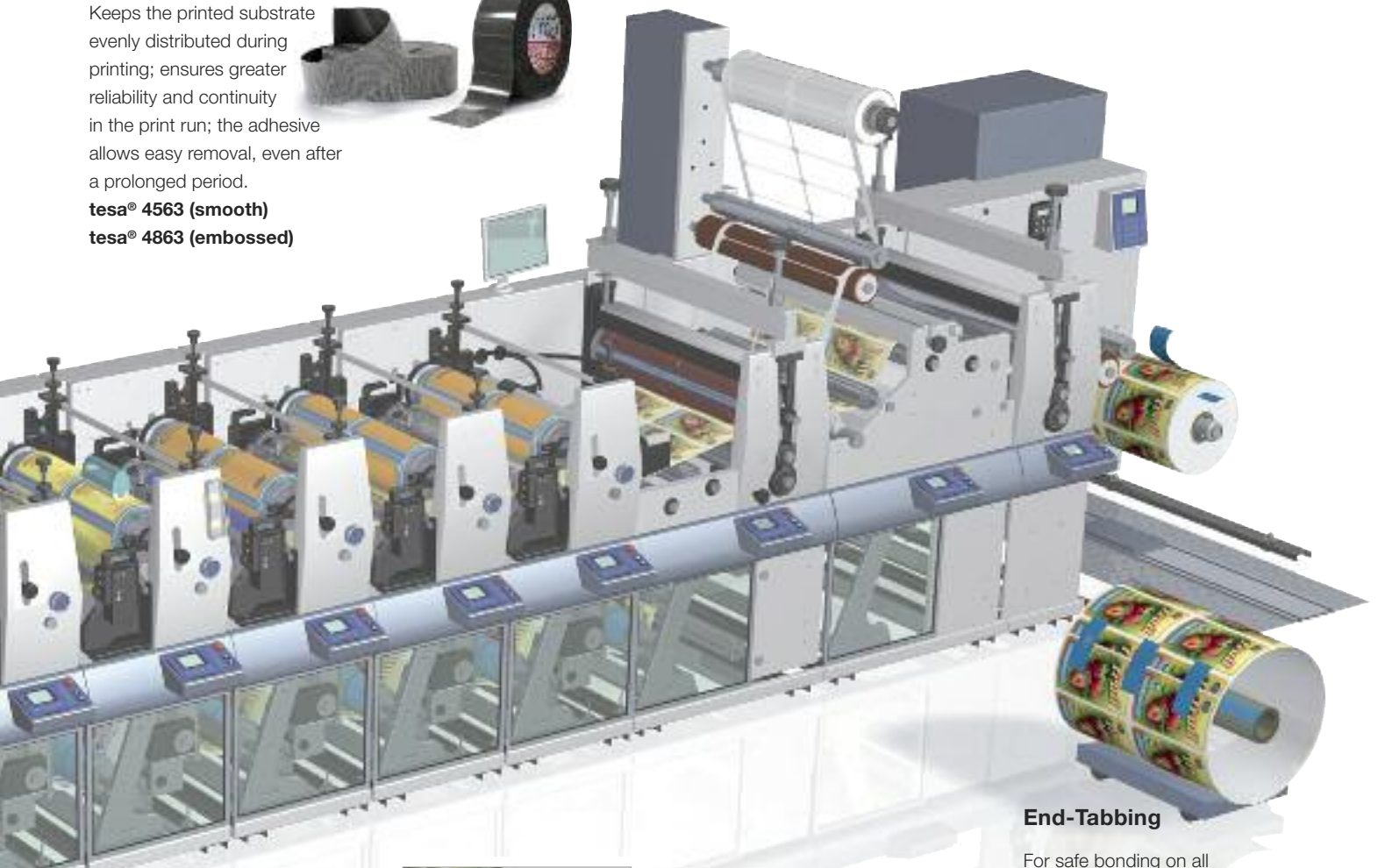
- tesa® 4563 (smooth)**
- tesa® 4863 (embossed)**



### Edge Sealing

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

- tesa® 53016**
- tesa® 53017**



### Core Starting

Excellent adhesion properties to ensure the web is securely attached to the core.

- tesa® 4959**



### End-Tabbing

For safe bonding on all substrates; available in different colors or transparent versions.

- tesa® 4104**

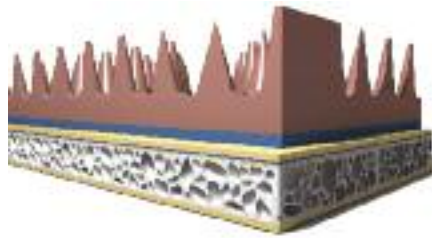


## tesa Plate Mounting Tapes – Meeting Increased Demands for the Best Print Results

The characteristics of foam quality, along with other variables, have a crucial effect on print results. All tesa plate mounting tapes are characterized by:

- Constant tape thickness
- Optimized recovery rate
- High 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.*



### tesa® Softprint Toolbox 15 mil



Medium-hard foam

Soft foam

#### tesa® Softprint SteelMaster TP

tesa® 52115

tesa® 52117

#### tesa® Softprint SteelMaster

tesa® 52015

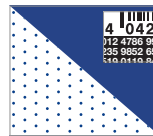
tesa® 52017

- The tesa® Softprint Toolbox is a specialized assortment with two different grades of foam hardnesses, and two different adhesive systems, for thicker or thinner plates.

- The broad range combines optimal solutions for achieving superior print results, while providing easy selection of the appropriate tape.

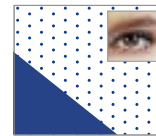
**Enhancing print results has never been easier!**

- **TP represents “thin plate”** for high cylinder-side adhesion and a tailored bond for easy demounting, even of thin plates (0.045”).



Medium-hard foam for combination print

Medium-hard foam



Soft foam for halftone print

Soft foam

### tesa Specialty Solutions for Sleeves and Steel Cylinders



Extra soft foam

tesa® Softprint x-Soft

tesa® 52118



Extra soft foam for fine screen print

Extra Soft Foam

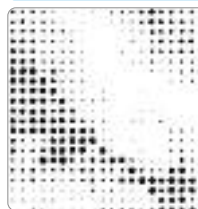
- tesa® Softprint x-Soft provides an optimum solution for finest screen printing with 80 lines/cm or more.

- The extra soft foam also compensates for press vibrations, thereby improving overall printing processes by helping machines run faster while improving print results.

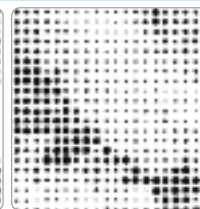
- tesa® Softprint x-Soft is equipped with optimized adhesive properties to promote optimal tape handling, mounting, and demounting.

Other plate mounting tapes

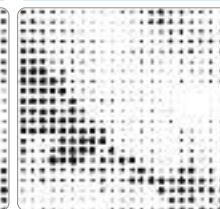
tesa® 52118 Softprint x-Soft



Missing screens



Increased dot gain



Optimum results

**tesa Label Printing Tapes**

Application	Product	Backing	Color(s)	Adhesive	Tape thickness
Plate Mounting	tesa® 52015 Softprint	PE <sup>1</sup> foam	Blue logo	Acrylic	15 mil
	tesa® 52017 Softprint	PE foam	Red logo	Acrylic	15 mil
	tesa® 52115 Softprint	PE foam	Blue logo	Acrylic	15 mil
	tesa® 52117 Softprint	PE foam	Red logo	Acrylic	15 mil
	tesa® 52118 Softprint x-Soft	PE foam	Yellow logo	Acrylic	15 mil
Splicing	tesa® 4104	H-PVC <sup>2</sup>	8 Colors	Rubber	2.5 mil
	tesa® 4137	PET <sup>3</sup>	Silver	Modified acrylic	2 mil
Edge Sealing	tesa® 53016	S-PVC <sup>4</sup>	Yellow	Modified rubber	5.3 mil
	tesa® 53017	S-PVC	White	Modified rubber	6 mil
Roller Wrapping	tesa® 4563	Si-coat fabric <sup>5</sup>	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
UV Measuring	tesa® 54140	PET	Transparent	Acrylic	1.5 mil

<sup>1</sup>PE - polyethylene    <sup>2</sup>H-PVC - hard polyvinyl chloride    <sup>3</sup>PET - polyester    <sup>4</sup>S-PVC - soft polyvinyl chloride    <sup>5</sup>Si-coat - silicone rubber-coated fabric

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.



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