



Solving Your Print Challenges of Today and Tomorrow

tesa tape

Alix Guyot, ASE

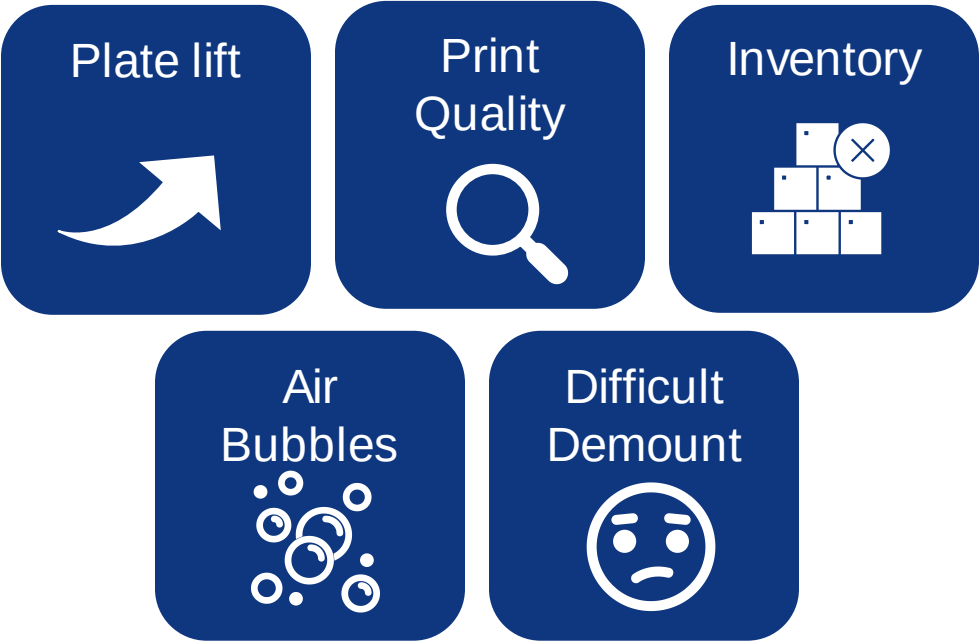
Keara Wingert, RMSM

Booth # 629

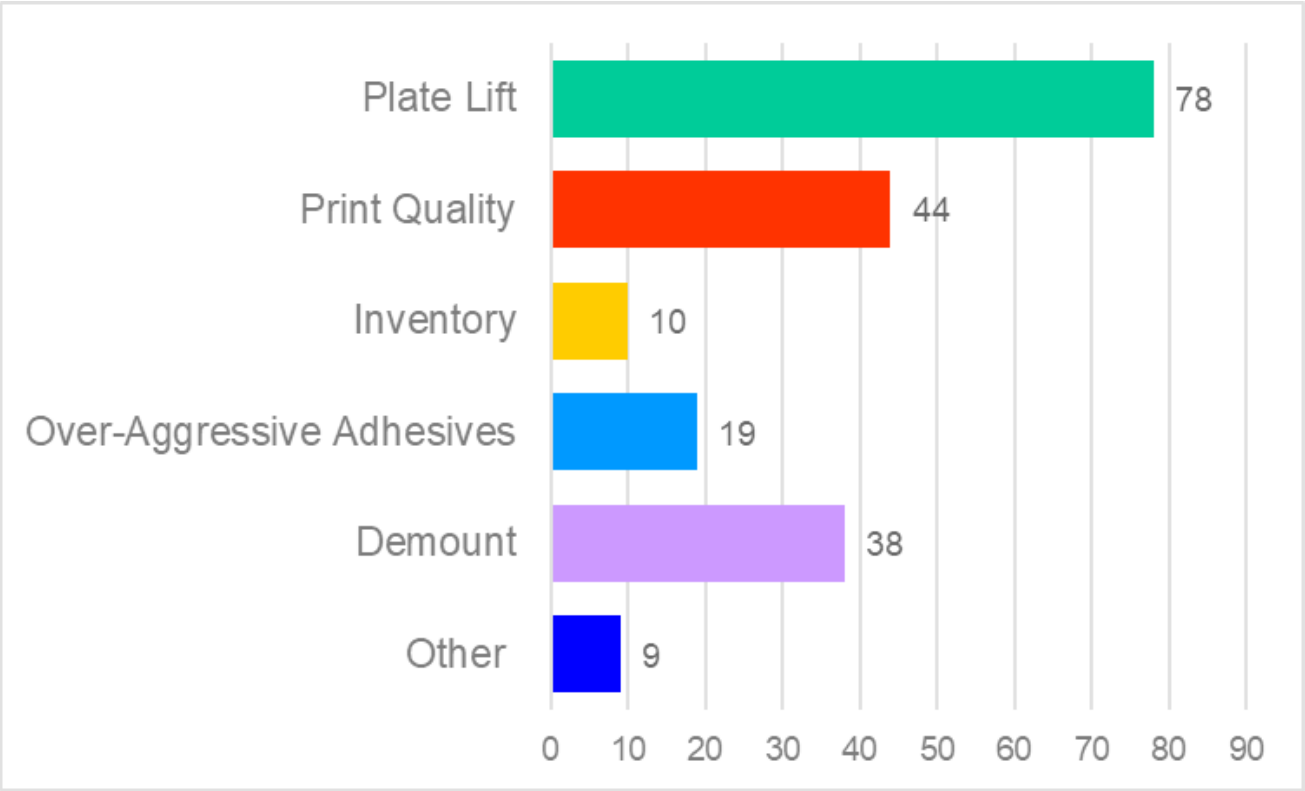
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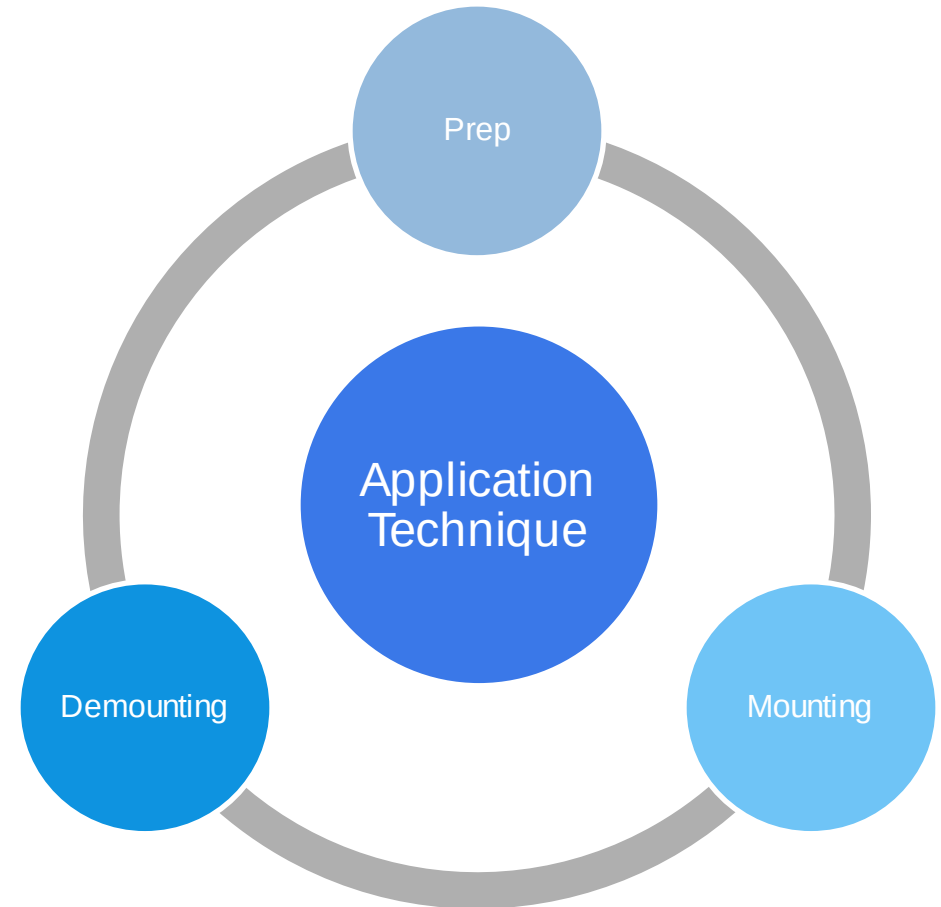
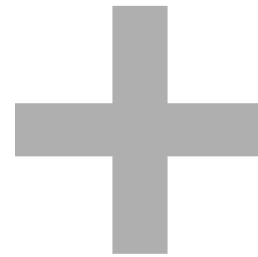
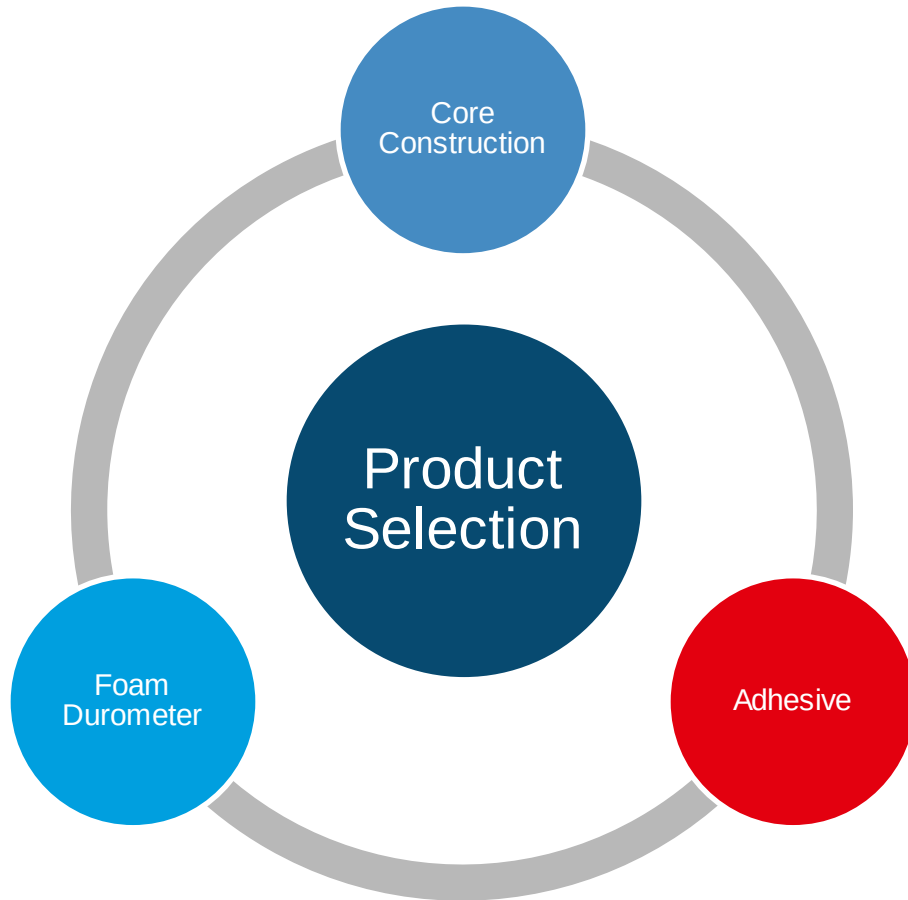
Flexo Magazine Poll: What are Major Tape Related Concerns?



Source: R. Moran, "Mounting Materials," Flexo Magazine, March 2023

Solving Your Print Challenges **Today**

Product Selection + Application Technique



How does Product Selection Impact Print Challenges?

The right product for the job



Product Selection

Core
Construction

Adhesive

Foam
Durometer



Air
Bubbles



Difficult
Demount



Plate lift



Difficult
Demount



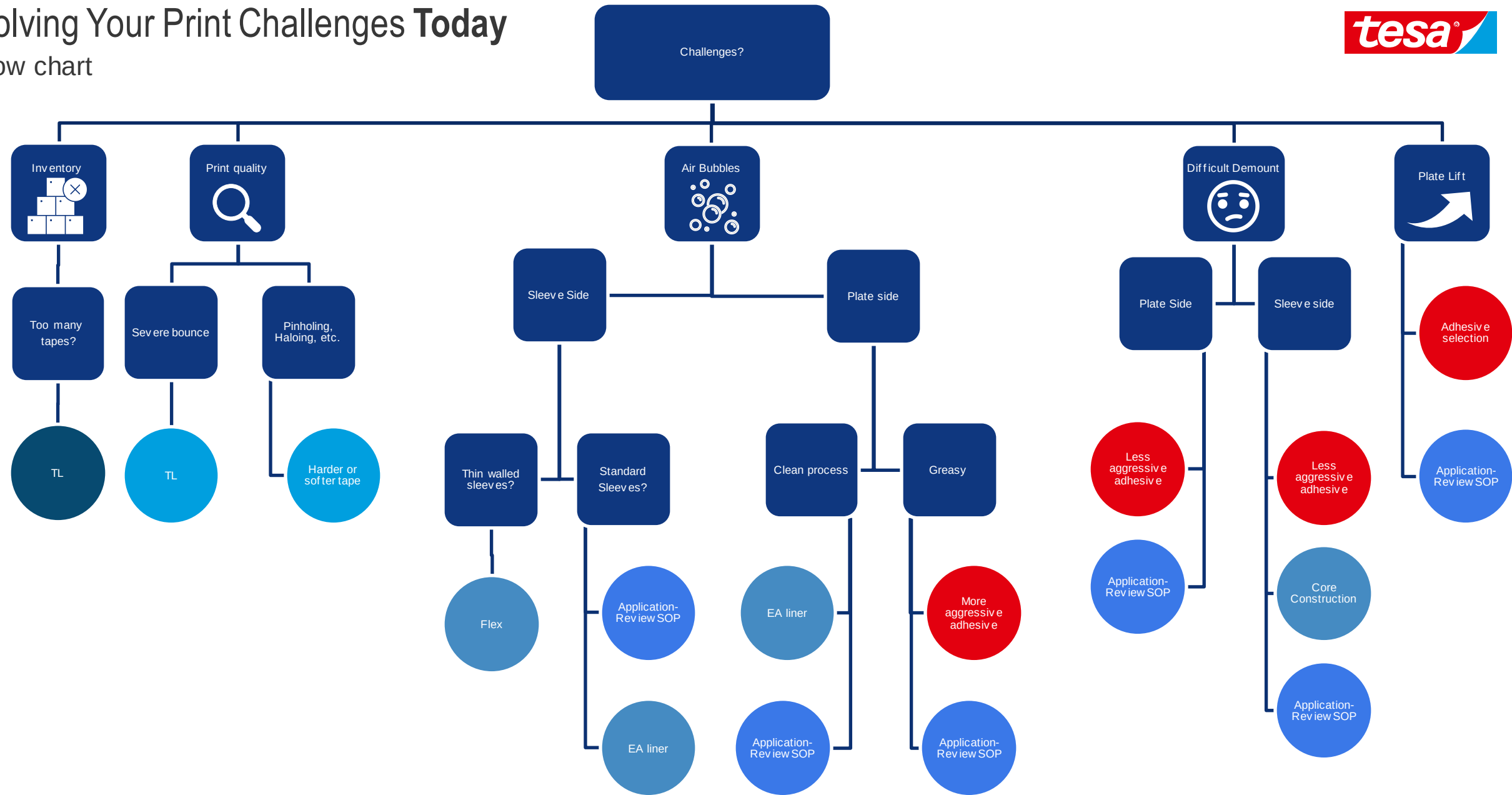
Print
Quality



Inventory

Solving Your Print Challenges Today

Flow chart



How does Core Construction Impact Print Challenges?

Exclusive supplier of **two independent core product designs**

- Classic and FLEX core construction



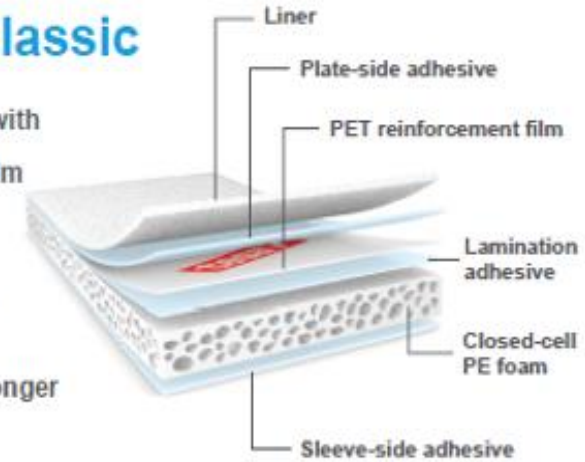
CLASSIC-design



FLEX-design

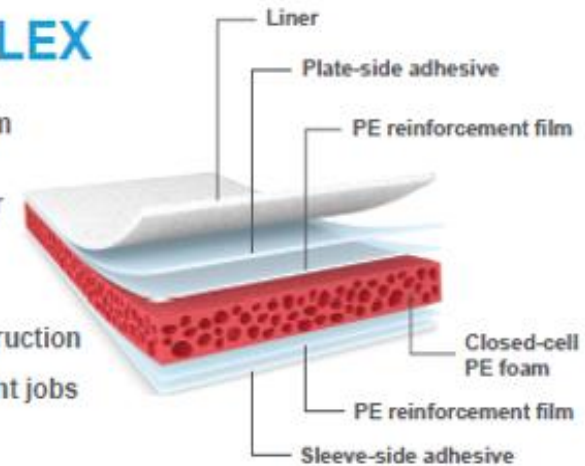
Softprint® Classic

- Easy tape handling with PET reinforcement film
- Wide range of adhesives available
- Highest quality for longer print runs



Softprint® FLEX

- PE reinforcement film
- Best for thin-walled or scratched sleeves
- Most versatile construction for wide range of print jobs



Two liner designs on FLEX FE-X

EA Liner: Unique liner structure

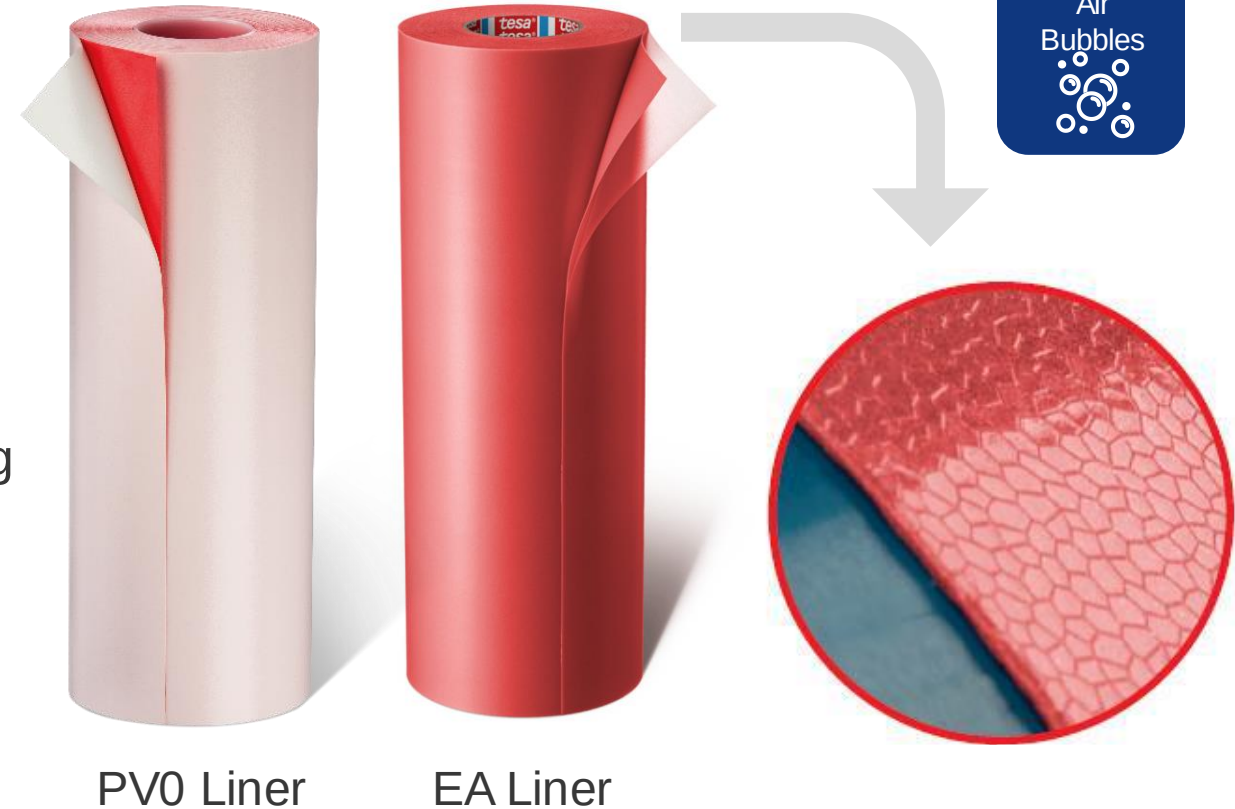
- “Snake skin” pattern
- Micro channels within the adhesive
- Helps **air escape** during mounting and printing

PV 0 Liner: Traditional

- “Orange peel” pattern
- Effortless application during **automatic** mounting

Both have the same foam and adhesive

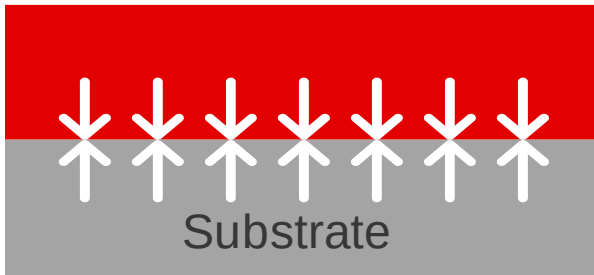
- Adhesive prevents plate lift while allowing easy plate repositioning and demounting. Foam delivers consistent and excellent print results.



A man wearing a blue hairnet and a dark blue short-sleeved shirt is operating a large industrial machine. He is looking up at a monitor screen. The machine is white and grey, with a large roll of material being processed. The background is a factory setting with blue structural elements.

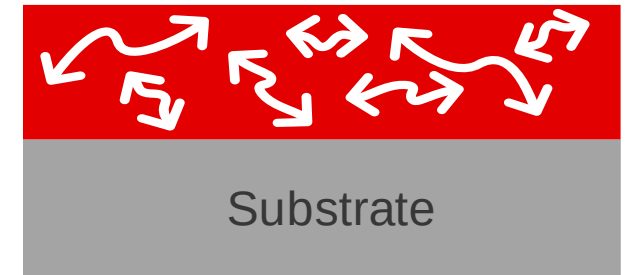
How does Adhesive Selection Impact Print Challenges?

Adhesion



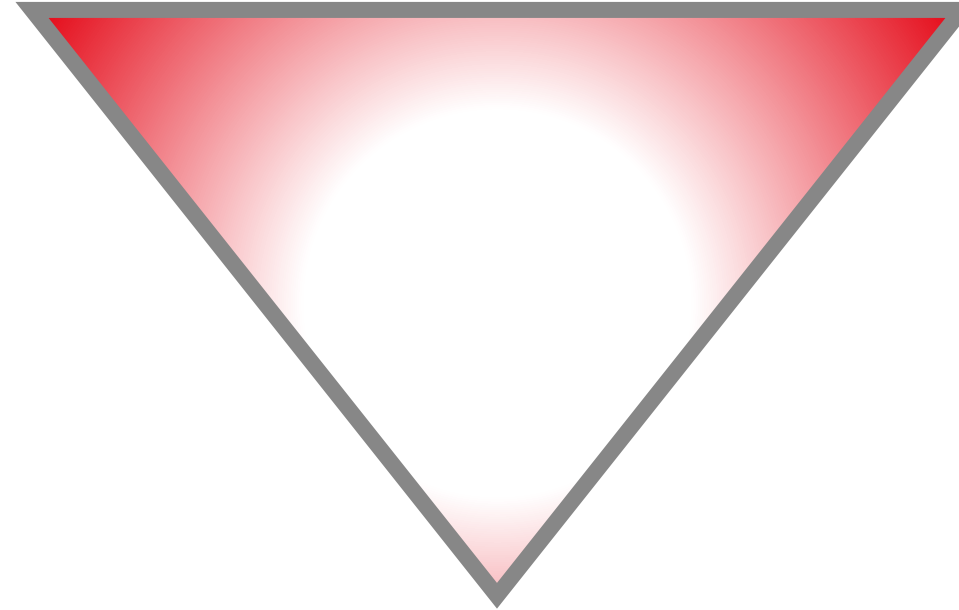
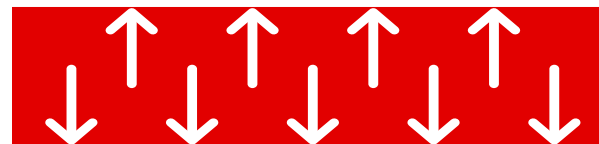
Bonding strength of the
adhesive to the substrate

Cohesion



Inner strength of the
adhesive, "holding power"

Tack

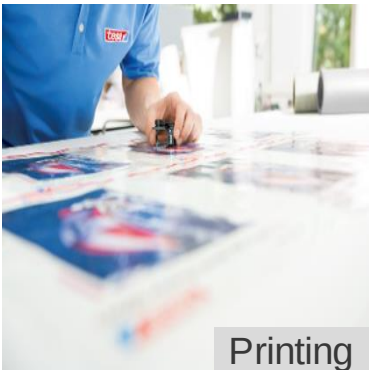


Customer demand vs technical demand for each process step



Mounting

Customer demand	Technical demand	PSA Property
Fast and simple	Surface tack	Low tack
Solve dirt conditions	Surface tack	High tack



Printing

Customer demand	Technical demand	PSA Property
No plate/ edge lifting	Adhesive properties	High adhesion
	Temperature resistant	High cohesion
	Solvent resistant	High cohesion



Demounting

Customer demand	Technical demand	PSA Property
Easy demounting	Adhesive properties	Low tack
	Ink resistant	High cohesion



tesa Softprint®

Adhesive Options



tesa Softprint® 380 µm / 15 mil		tesa Softprint® 500 µm / 20 mil		
Standard product	Lower bonding towards sleeve side	Standard product	Higher bonding towards sleeve side	Product explanation
FE		FE	FE-X	Very low tack adhesive for easy and fast plate mounting and demounting. Secure bonding with excellent resistance to edge lifting in clean and standardized conditions.
SEC			SEC-X	Low tack adhesive for easy and fast plate mounting and demounting. Secure bonding with excellent resistance to edge lifting in clean and standardized conditions.
TP	SLM	TP	TP-X	Medium tack adhesive for reliable plate mounting under most conditions. Secure bonding with excellent resistance to edge lifting especially under warm and high humidity conditions.
STM		STM		High tack adhesive for plate mounting in unclean and cold conditions. Secure bonding with excellent resistance to edge lifting.

 Marked tesa Softprint® products are available in CLASSIC and FLEX design(20mil)

 Marked tesa Softprint® product in FLEX design(15mil)



How does Durometer Selection Impact Print Challenges?



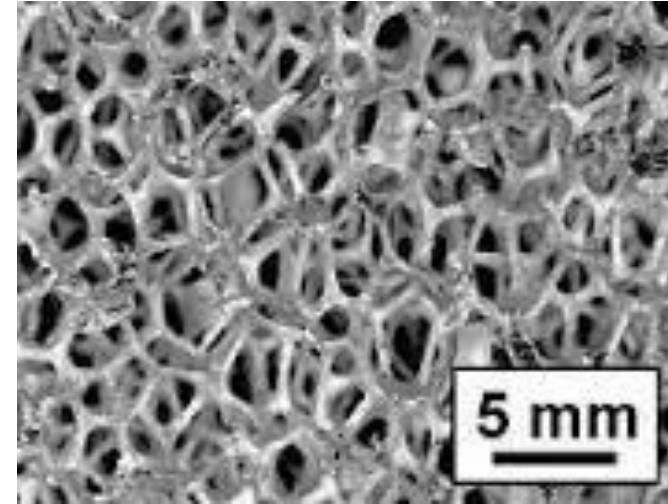


X-Soft		Soft		Medium		Medium-Hard		Hard		X-Hard	
Screen 40%	Screen 10%	Screen 40%	Screen 10%	Screen 40%	Screen 10%	Screen 40%	Screen 10%	Screen 40%	Screen 10%	Screen 40%	Screen 10%
Solid	Font neg.	Solid	Font neg.	Solid	Font neg.	Solid	Font neg.	Solid	Font neg.	Solid	Font neg.

Permanent adhesion, without end

Twinlock-foam is Polyurethane foam:

- Open cell foam does not collapse under print pressure
- Twinlock on top of the foam functions as an extra bumper
- No increased print pressure, therefore more consistent print quality



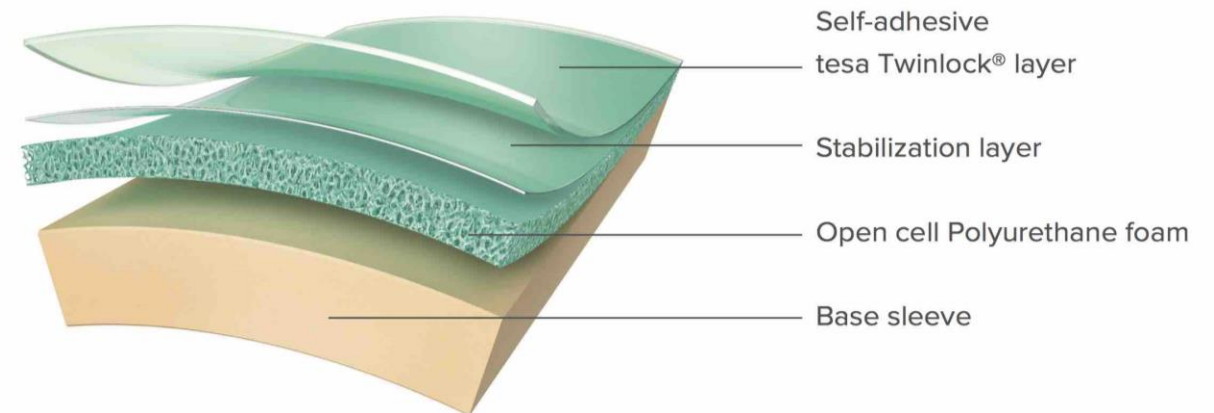
Foam
Durometer

Print
Quality



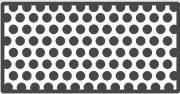
Unique Quality Control

- Every sleeve is measured by a laser during and at the end of the production process
- Tolerance of a Twinlock sleeve is +/- 2/100mm
- By producing the tesa Twinlock® layer on every 1/100mm we can “tailor make” each sleeve



Soft/Medium/Hard

- > 85% of what we produce is medium
- < 15% of what we produce is hard/soft

	Foam	Color code	Print motif
tesa Twinlock® Soft Sleeve	Polyurethane	White	
tesa Twinlock® Medium Sleeve	Polyurethane	Green Blue	
tesa Twinlock® Hard Sleeve	Polyurethane	Black	

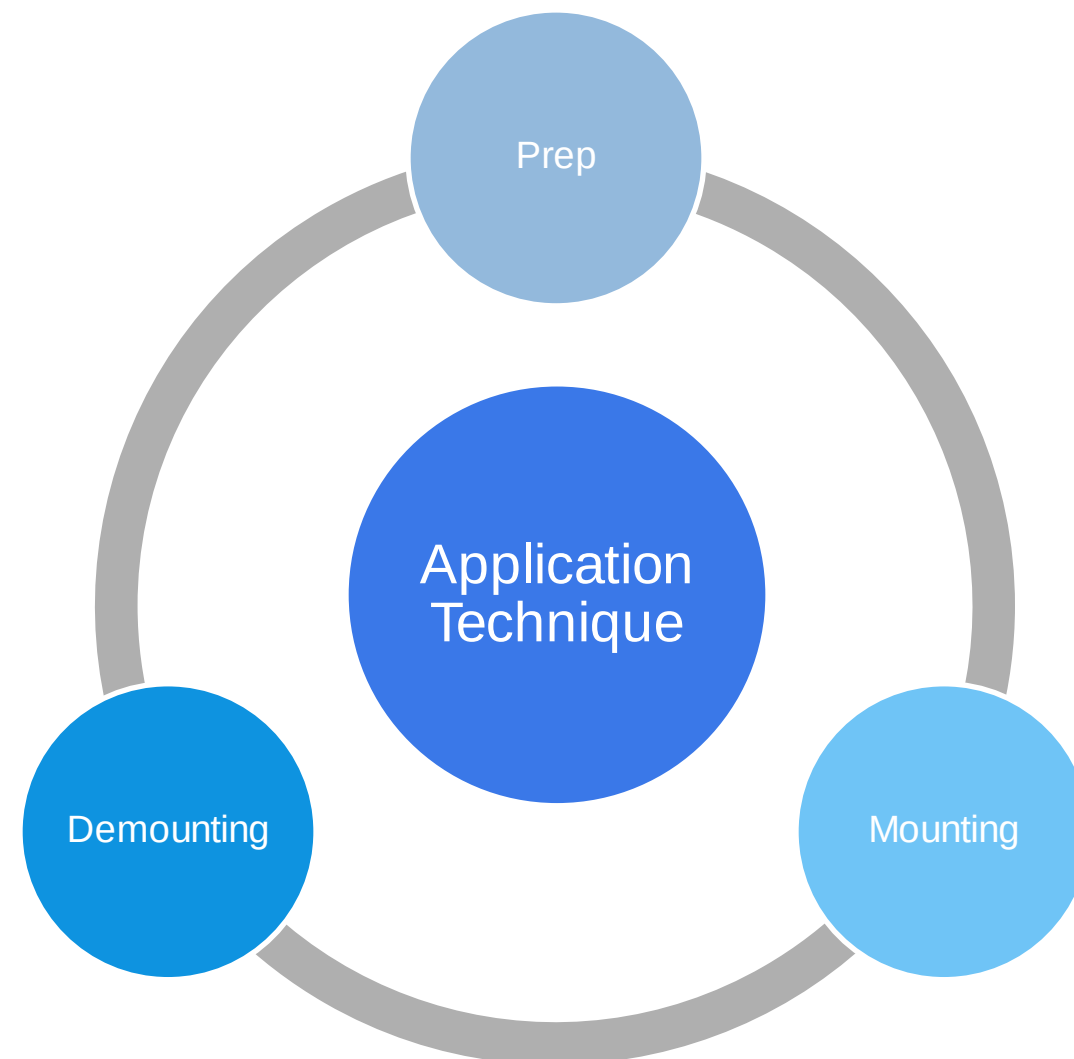


Using the right product

but still facing print challenges?

tesa® Plate Mounting Certification

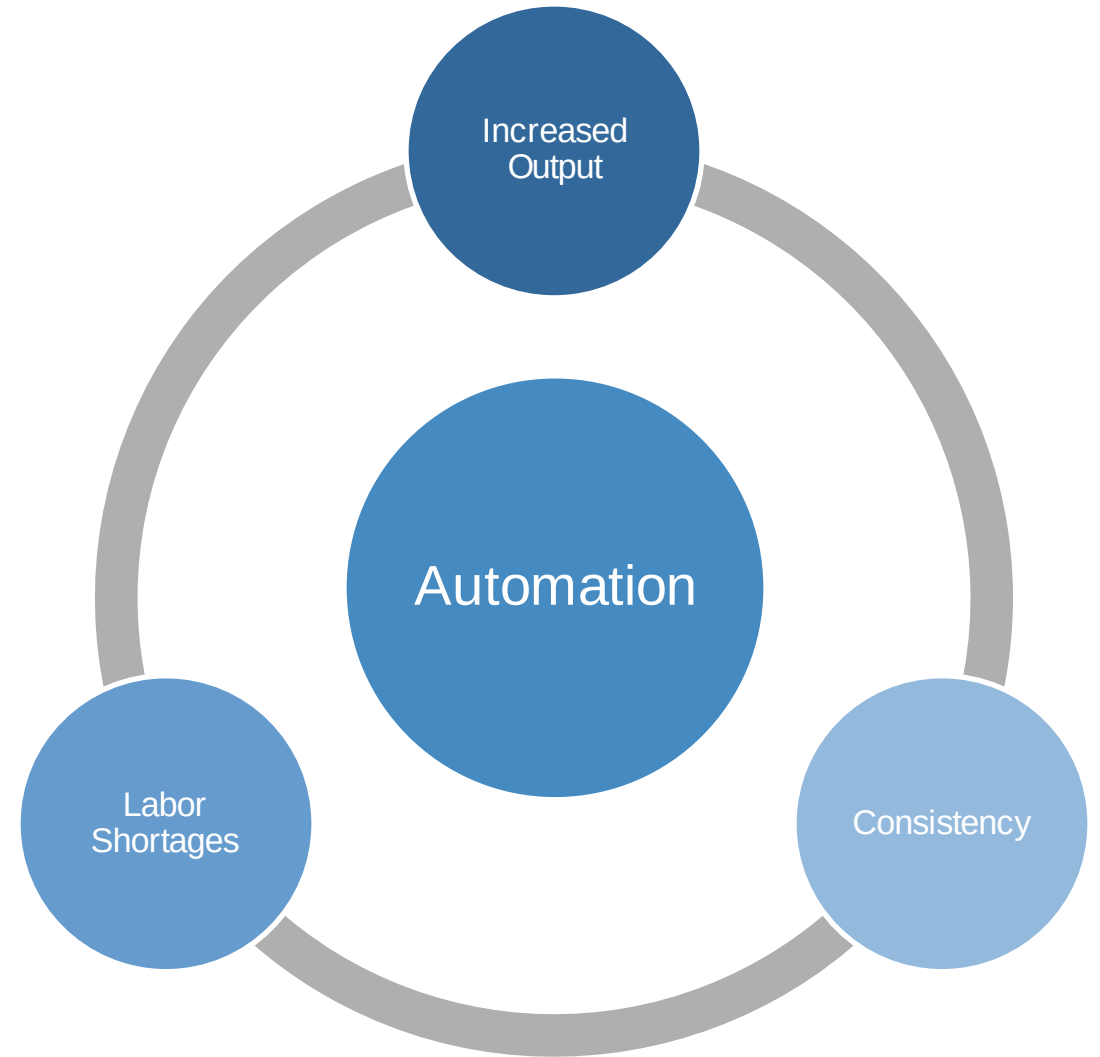
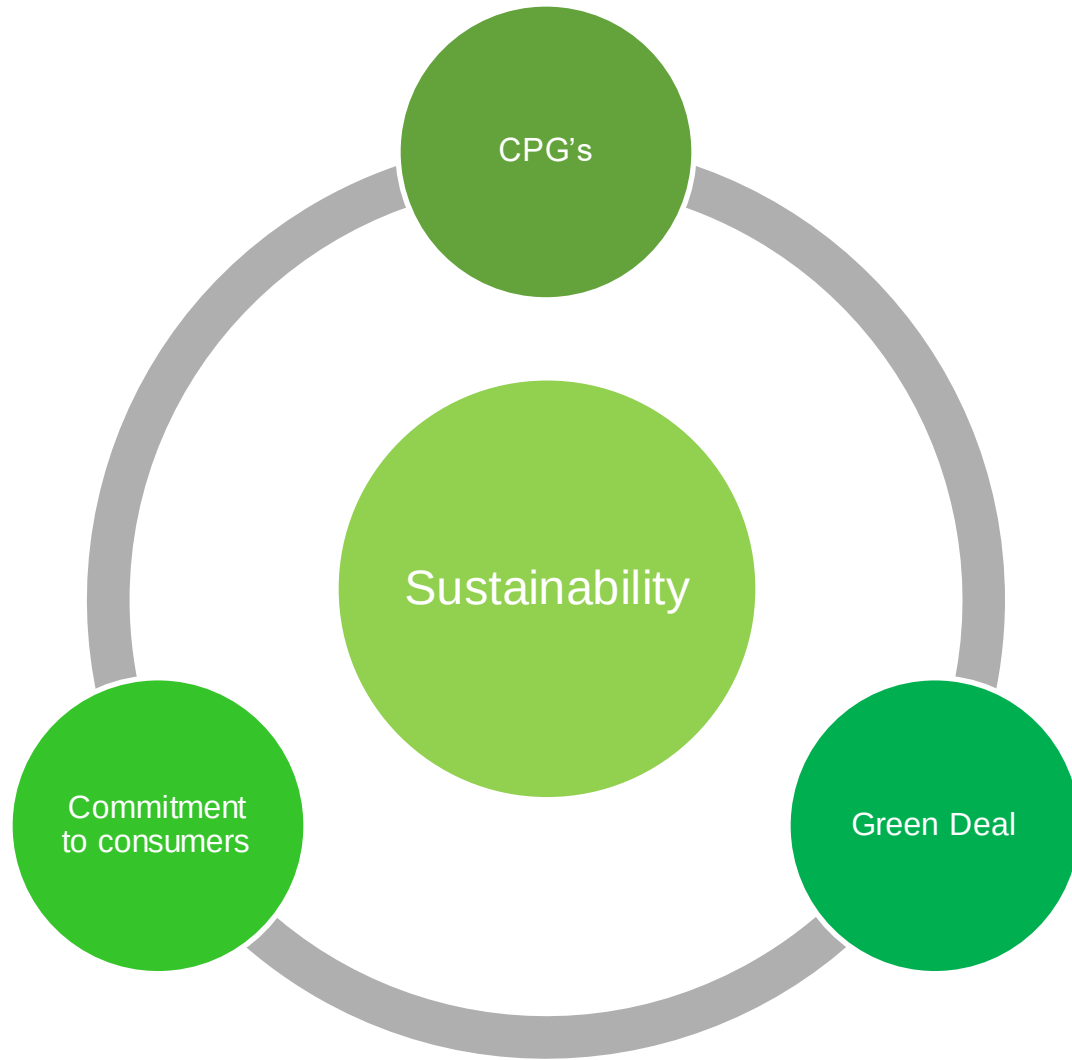
- Standardize process across all shifts
- Update best practices
- Provides tools to troubleshoot issues
- Hands on
- Continued Education
 - Certification included
 - “Train the trainer”



Printing Challenges of Tomorrow: What's next?

Print Challenges of Tomorrow

What's Next?



Print Challenges of Tomorrow

Sustainability



Our Sustainability Goals:

- Reduction of emissions
- Responsible sourcing
- Use of recycled and bio-based materials
- Circularity and reduction of waste
- Enable sustainability at our customers



How can we help our customers meet their goals?

- Review our product assortment
 - Redesign where possible – add additional value
- Add new products where it makes sense
 - Twinlock

120 tons of
landfill waste

Or the weight of a
Boeing 757-200

Potential savings when a
packaging printer switches
to tesa® Twinlock¹



¹Results may vary depending on operation,
and duration of tesa® Twinlock usage.

Print Challenges of Tomorrow

Automation



How can we help design our products to be more efficient?

- Adapting to the latest technology
- Plate mounting tape compatible with AVF's RoboTAPE
- Developing splicing tapes that allow our customers to maximize their equipment
 - 51948- Filmline Black X
 - Splices at 2,000 ft/min





Thank you for your attention!

Alix Guyot

Keara Wingert

Booth # 629

Learn more about our company
www.tesa.com/en-us/industry/paper-print

