



# Testing methods and procedures

FINAT test methods and how to use them



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**FINAT TECHNICAL HANDBOOK**  
**TEST METHODS**  
**10<sup>TH</sup> EDITION**

(Revised edition 2019)

Latest FINAT Technical Handbook:

Test Methods  
10<sup>th</sup> Edition, 2019

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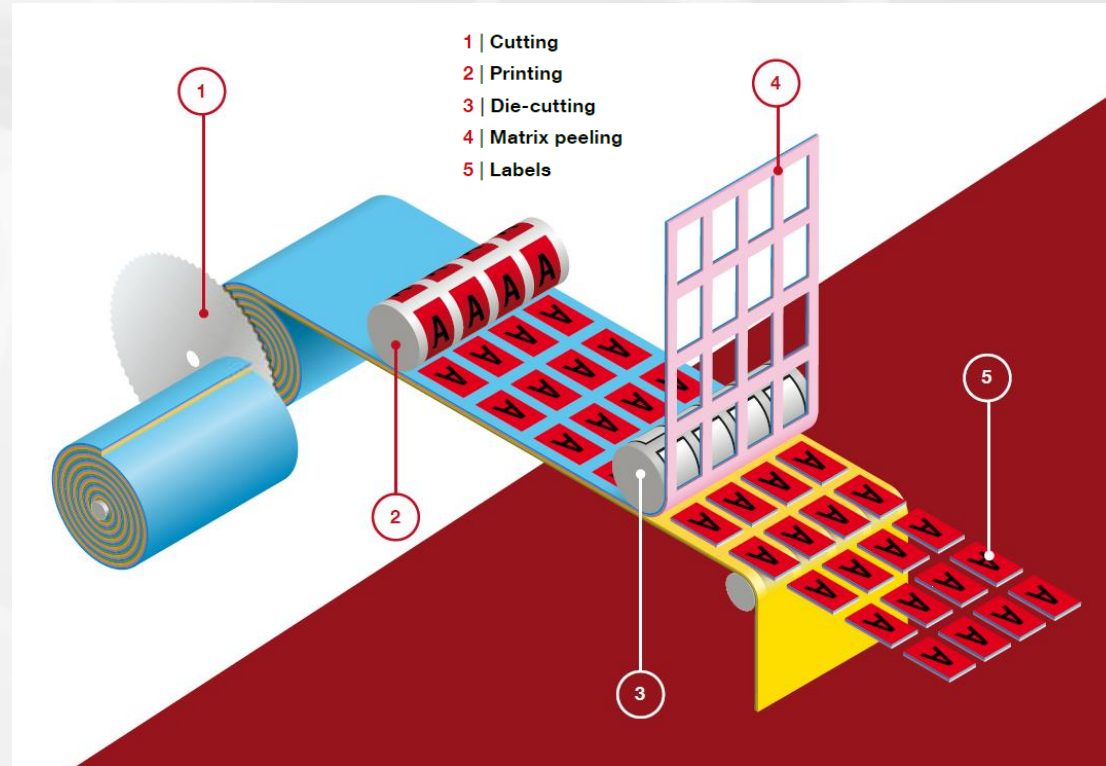
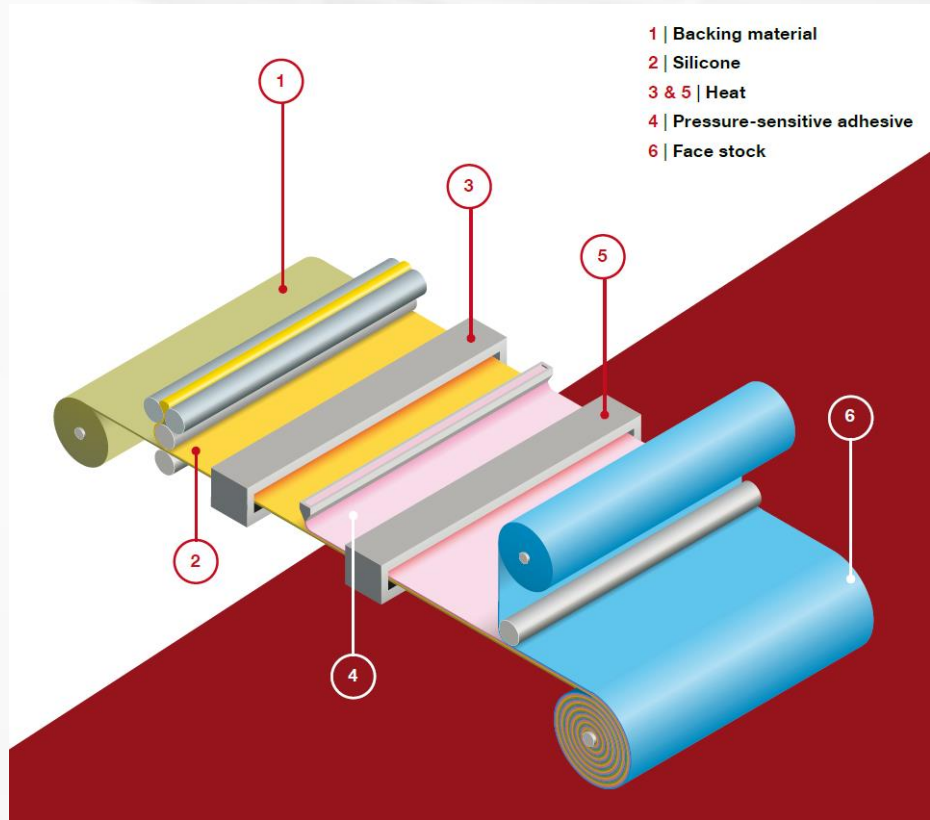
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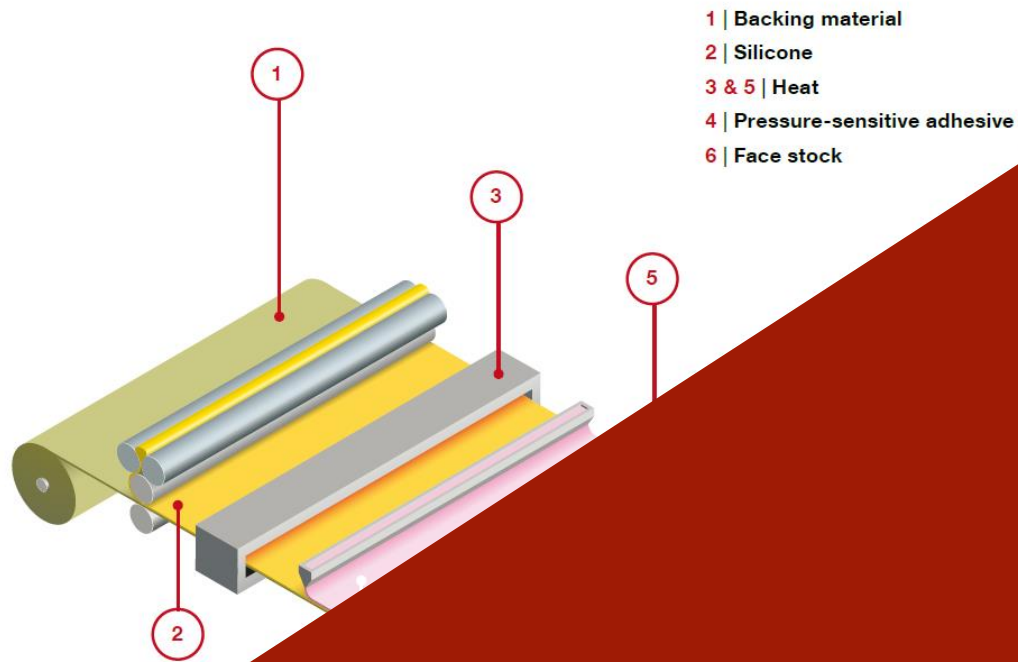
## SECTION I | FINAT TEST METHODS

Method	Description	Construction	Test relevant to
FTM 1	Peel adhesion (180°) at 300 mm per minute	Face stock	Adhesion
FTM 2	Peel adhesion (90°) at 300 mm per minute	Face stock	Adhesion
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FTM 7	Silicone Coat Weight by energy-dispersive X-ray fluorescence spectrometry	Liner	Coating quality
FTM 8	Resistance to shear from a standard surface	Face stock	Adhesion

# FINAT TEST METHODS COVERING THE LIFE CYCLE



# TESTING SILICONE RELEASE LINER PROPERTIES



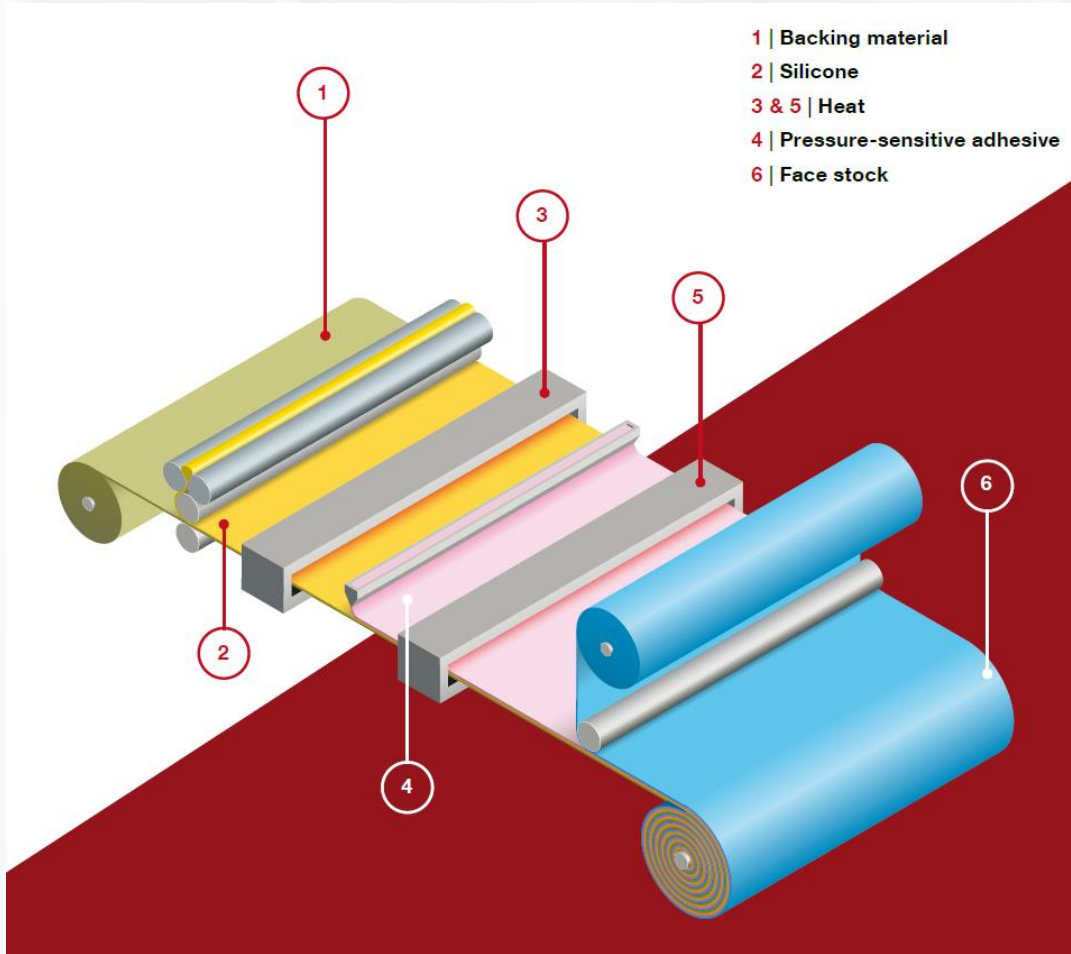
## Silicone Release Liner Producer

- FTM 7 Silicone Coat Weight by energy-dispersive X-ray fluorescence spectrometry
- FTM 25 Evaluation of the silicone coverage of coated papers by use of a water based stain test

## Silicone Release Liner User

- FTM 10 Quality of silicone coated substrates for self-adhesive laminates: release force
- FTM 11 Quality of silicone coated substrates for self-adhesive laminates: subsequent adhesion

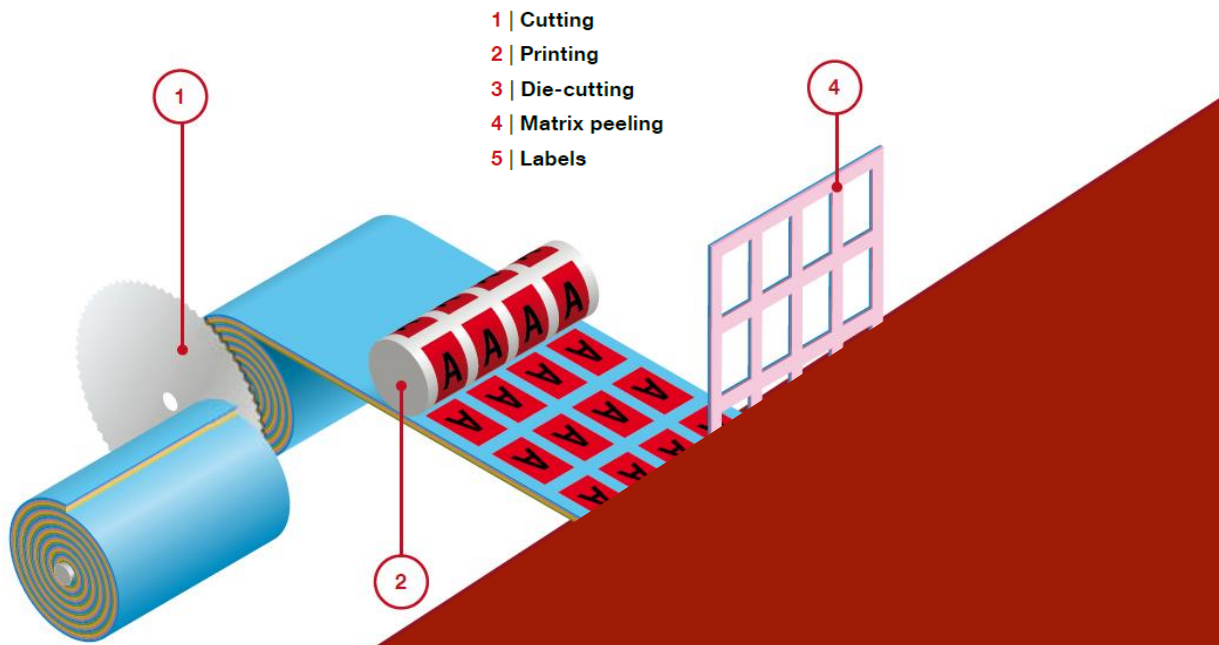
# TESTING LABEL STOCK PROPERTIES



## Laminate Producer

- FTM 5 Accelerated ageing – Extended storage
- FTM 6 Resistance to ultra-violet light
- FTM 12 Adhesive coat weight
- FTM 28 Evaluation of bleeding through paper

# TESTING PRINTABILITY PROPERTIES



## Label Printer

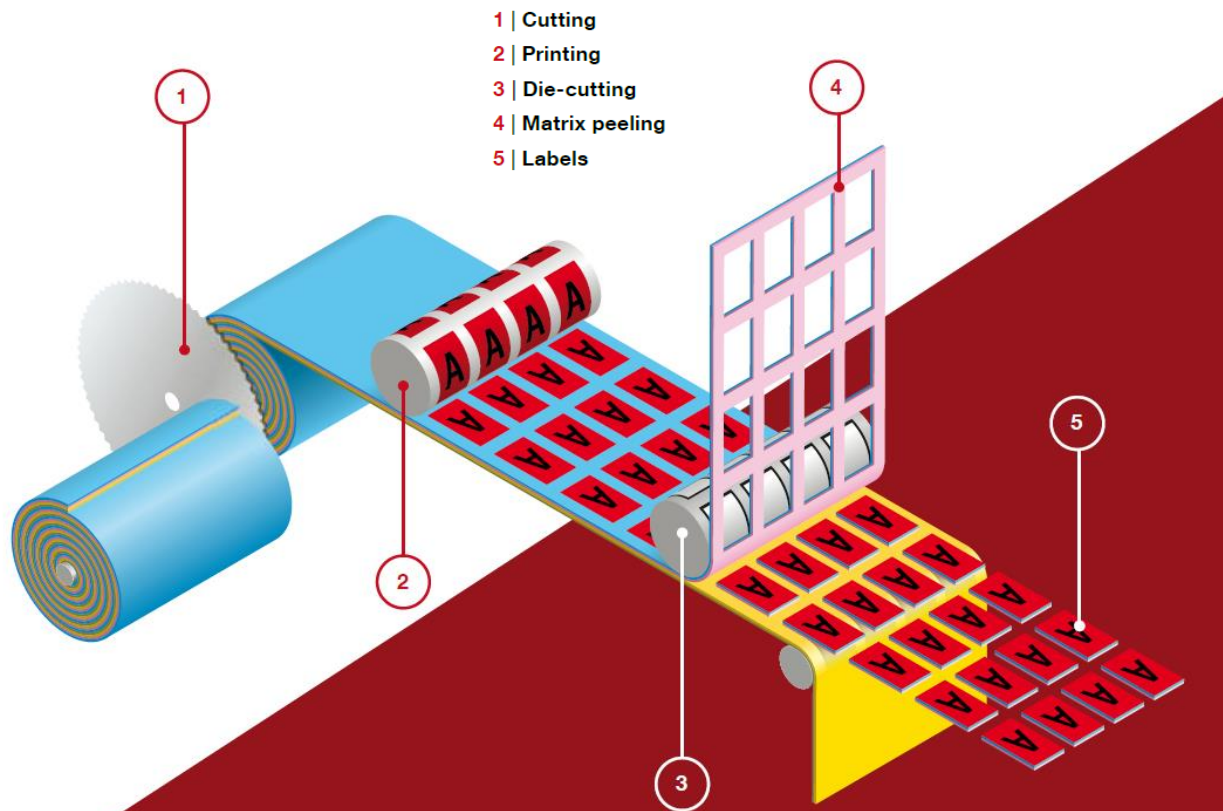
FTM 15 Surface tension of plastic films

FTM 20 Fluorescence and whiteness

FTM 30 Measurement of the UV drying of UV inks and white print colours



# TESTING CONVERTING PROPERTIES



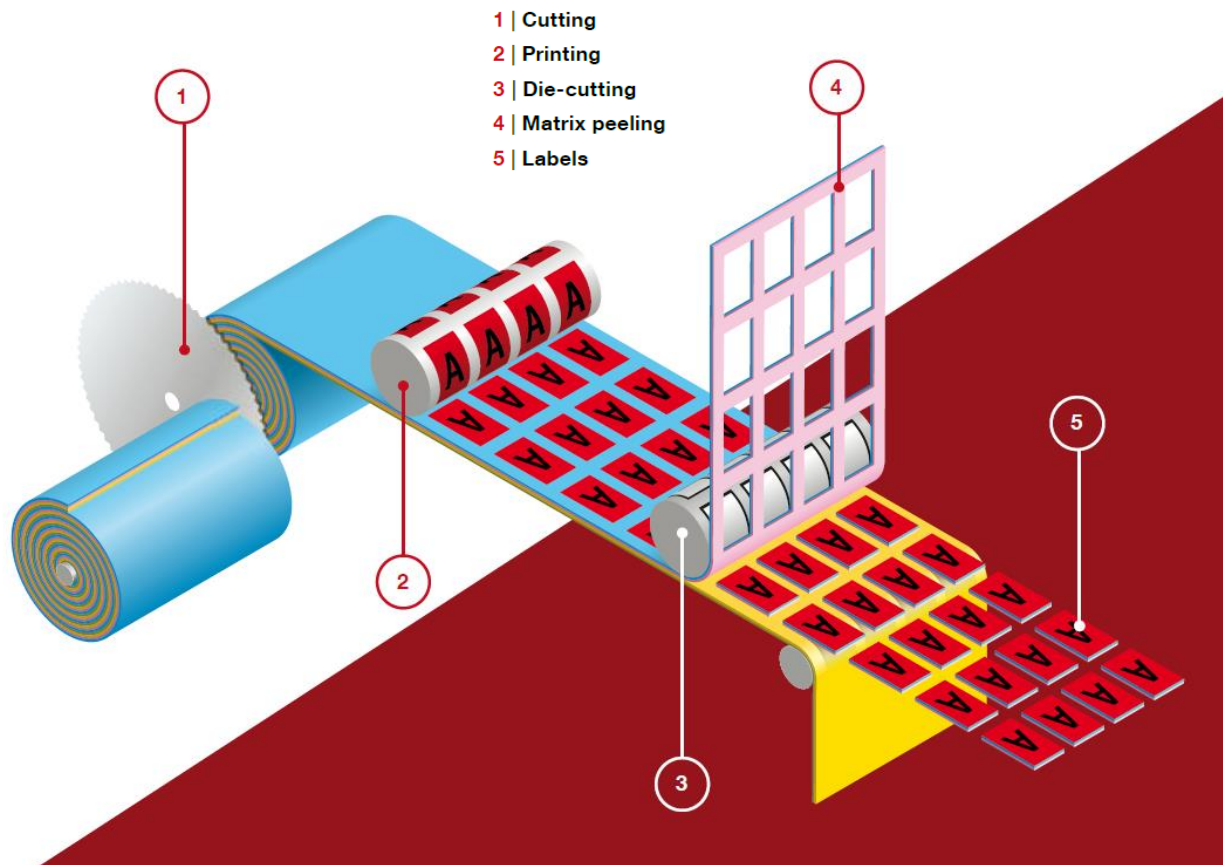
## Label Converter

FTM 23a Testing for die-strike on paper laminate

FTM 23b Testing for die-strike on clear filmic liners

FTM 4 High speed release Force → Matrix peeling

# TESTING LABELING PROPERTIES



## Label Applicator

FTM 3

Low speed release force → Release

FTM 9

Loop tack measurement → Stick

# TESTING THE LABEL STABILITY

FTM 14 Dimensional stability

FTM 16 Chemical resistance – Spot method Face

FTM 17 Chemical resistance – Immersion method



# TESTING THE LABEL PRINTING

- FTM 21 Ink adhesion - basic
- FTM 22 Ink adhesion – advanced
- FTM 27 Ink rub test for UV printed labels ink surface against substrate or ink surface
- FTM 29 Scratch resistance of an UV ink film on different print materials



# TESTING THE LABEL STICKINESS

- FTM 1 Peel adhesion (180°) at 300 mm per minute
- FTM 2 Peel adhesion (90°) at 300 mm per minute
- FTM 8 Resistance to shear from a standard surface
- FTM 18 Dynamic shear



- FTM 13 Low temperature adhesion



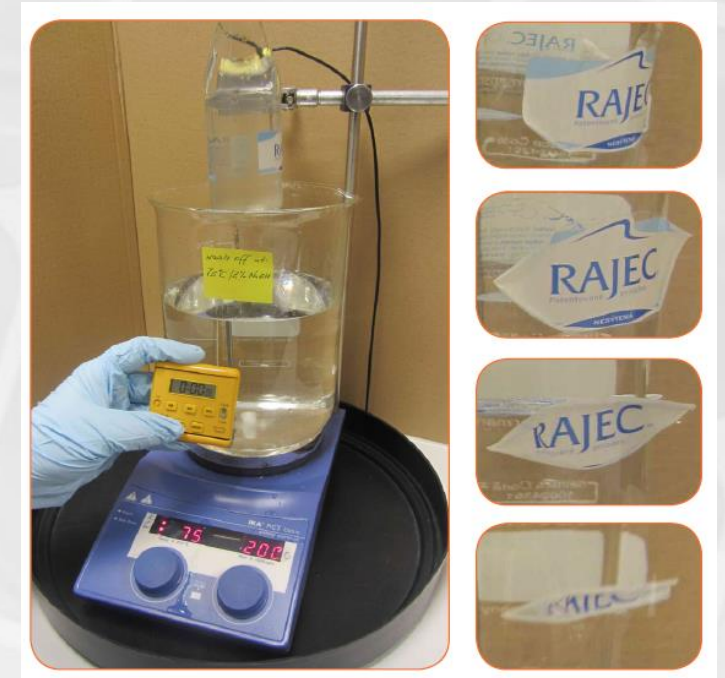
- FTM 24 Mandrel hold  
→ Curved surfaces



# TESTING THE LABEL RECYCLING COMPATIBILITY

FTM 26 Wash-off paper and film labels

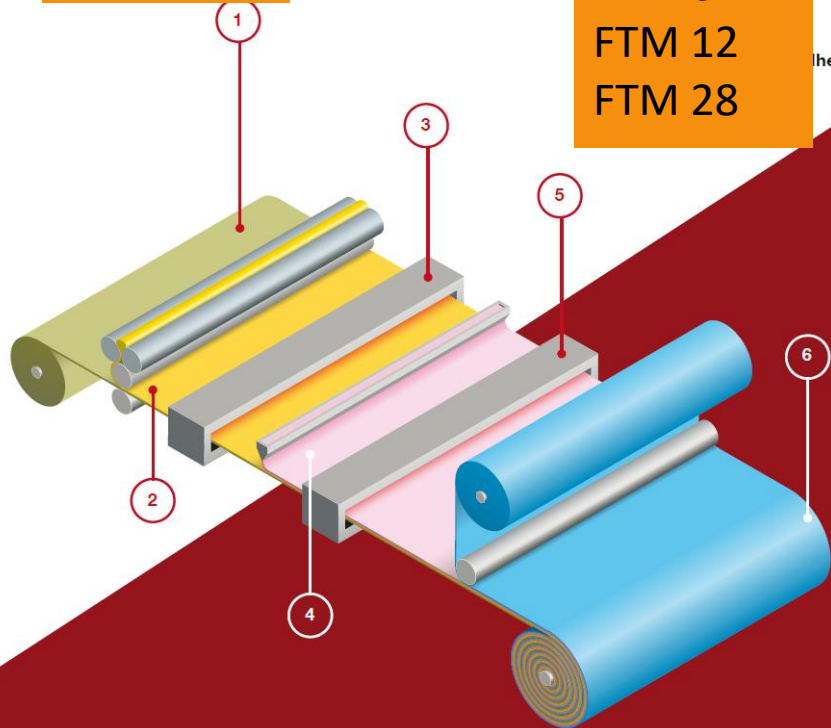
FTM 19 Recycling compatibility of self-adhesive labels  
→ Test for “stickies”



# FINAT TEST METHODS COVERING THE LIFE CYCLE

FTM 7  
FTM 25  
FTM 10  
FTM 11

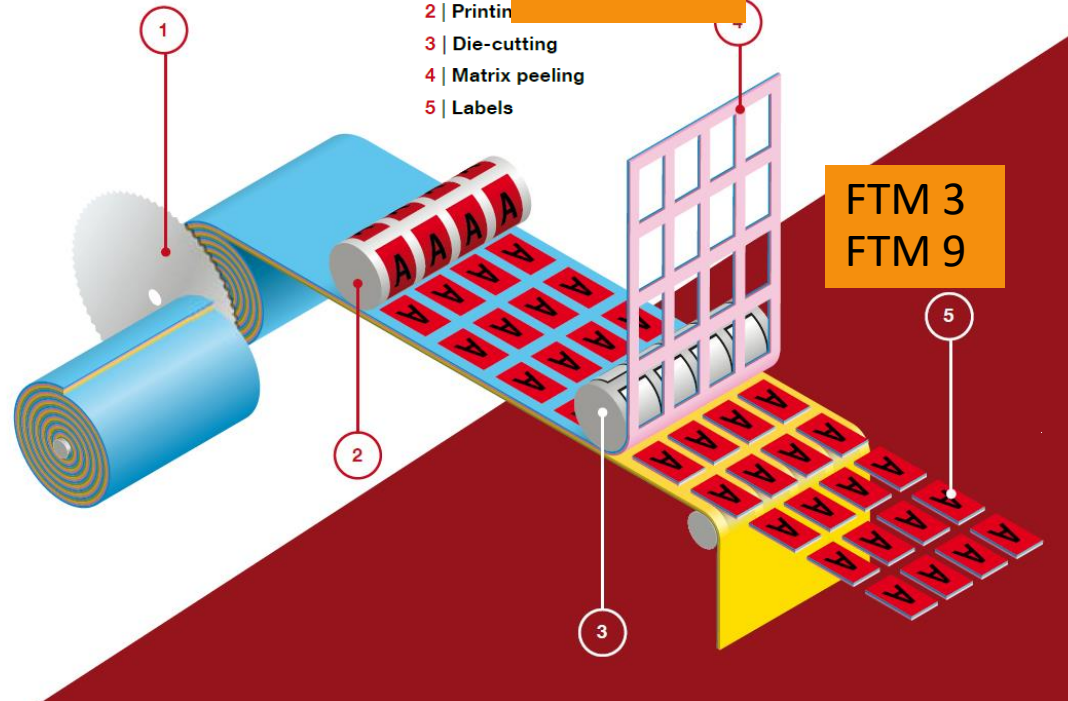
FTM 5  
FTM 6  
FTM 12  
FTM 28



FTM 15  
FTM 20

FTM 23a  
FTM 23b  
FTM 4

- 1 | Cutting
- 2 | Printing
- 3 | Die-cutting
- 4 | Matrix peeling
- 5 | Labels



FTM 3  
FTM 9

FTM 14  
FTM 16  
FTM 17  
FTM 21  
FTM 22  
FTM 27  
FTM 29  
FTM 1  
FTM 2  
FTM 8  
FTM 18  
FTM 13  
FTM 24



FTM 26  
FTM 19

# FINAT TEST METHODS FROM EXPERTS FOR EXPERTS

