



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

# PREFACE

It is my pleasure to introduce you to the 10th edition of the FINAT Technical Handbook which is globally acknowledged as being the authoritative benchmark on test procedures for adhesive labels. The FINAT test methods described in the Handbook are used to evaluate label stock and frequently serve as a basis for producing specifications. Since the first edition 30 years ago, the Technical Handbook has been continually revised. New test methods have been added, current ones edited and obsolete ones deleted.

The FINAT Technical Handbook, as well as the TLMI Manual of Recommended Standard Test Methods for Pressure Sensitive Labels and other various ASTM tests form the basis for the application-oriented testing of self-adhesive labels.

This edition features a new test method: FTM 30: Measurement of the UV drying of UV inks and white print colours. FTM 5, dealing with accelerated ageing – extended storage, has been entirely revised. For some test methods, the test conditions have been made more flexible in order that the tests can be adapted to the individual application.

I take this opportunity to thank all members of the Technical Committee for their excellent contributions to the design, translation and revision of the content. I am particularly grateful to the members of the Subcommittee on Test Methods, who are the driving force behind this handbook. The composition of the Technical Committee, which encompasses the entire self-adhesive label industry, guarantees the quality and wide acceptance of the FINAT test methods worldwide.

*Hans Lautenschlager*  
*Chairman of the Subcommittee on Test Methods*



# CONTENTS

## SECTION 1 | 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
FTM 3	Low speed release force	Laminate	Delamination
FTM 4	High speed release Force	Laminate	Matrix stripping
FTM 5	Accelerated ageing – Extended storage	Laminate	Ageing
FTM 6	Resistance to ultra-violet light	Laminate	Ageing
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
FTM 9	Loop' tack measurement	Face stock	Adhesion
FTM 10	Quality of silicone coated substrates for self-adhesive laminates: release force	Liner	Dispensing
FTM 11	Quality of silicone coated substrates for self-adhesive laminates: subsequent adhesion	Liner	Silicone cure
FTM 12	Adhesive coat weight	Face stock	Coating quality
FTM 13	Low temperature adhesion	Face stock	Adhesion
FTM 14	Dimensional stability	Face stock	Stability
FTM 15	Surface tension of plastic films	Face stock	Printing
FTM 16	Chemical resistance – Spot method	Face stock	Stability
FTM 17	Chemical resistance – Immersion method	Face stock	Stability
FTM 18	Dynamic shear	Face stock	Adhesion
FTM 19	Recycling compatibility of self-adhesive labels	Face stock	Recycling
FTM 20	Fluorescence and whiteness	Face stock	Printing
FTM 21	Ink adhesion - basic	Face stock	Printing
FTM 22	Ink adhesion - advanced	Face stock	Printing
FTM 23a	Testing for die-strike on paper liners	Laminate	Dispensing
FTM 23b	Testing for die-strike on clear filmic liners	Laminate	Dispensing
FTM 24	Mandrel hold	Face stock	Adhesion
FTM 25	Evaluation of the silicone coverage of coated papers by use of a water based stain test	Liner	Coating quality
FTM 26	Wash-off paper and film labels	Face stock	Adhesives
FTM 27	Ink rub test for UV printed labels ink surface against substrate or ink surface	Laminate	Printing
FTM 28	Evaluation of bleeding through paper	Face stock	Printing
FTM 29	Scratch resistance of an UV ink film on different print materials	Face stock	Printing
FTM 30	Measurement of the UV drying of UV-inks and white print colours	Face stock	Printing

## SECTION 2 | GUIDELINES

2.1	Recommended joins in self-adhesive laminates for roll labels
2.2	Processing recommendations
2.3	Surfaces requiring caution
2.4	Safety guide for users of self-adhesive label stock products
2.5	Handling and storage of label stock throughout printing and converting
2.6	Qualitative Adhesion testing
2.7	Adhesives
	Nomenclature for adhesives used in self-adhesive laminates
2.8	Unwind roll chart
2.9	Recommendations regarding static electricity
2.10	Advices about light fastness of printing inks and light exposition

## SECTION 3 | TEST EQUIPMENT

3.1	Standard FINAT Test Roller
3.2	Automatic Rolling Device
3.3	Sources of Test Equipment
3.4	Testing institutes
3.5	tesa® test tapes product information and worldwide addresses

# ORDER FORM

FINAT TECHNICAL HANDBOOK  
9<sup>TH</sup> EDITION

## PRICE

- FINAT MEMBERS**     ▪ **Hard copy: € 35 (excluding dispatch costs)**  
*(PDF free of charge, downloadable from the FINAT website (member area))*
- NON-MEMBERS**     ▪ **Hard copy or PDF: € 150 (including dispatch costs, regular priority mail)**

## ORDERING CONDITIONS

- ☐ My company is a **FINAT member**, I therefore would like to purchase the handbook at the special FINAT member price of **€ 35**. Please send me ..... **English**, ..... **French**, ..... **German**; copies of the book.  
If I order 5 copies or more I receive a 10% discount.
- ☐ My company is **not** a FINAT member. I wish to order the handbook at the normal price of **€ 150**.  
Please send me ..... **English**, ..... **French**, ..... **German**; copies of the book. If I order 5 copies or more I receive a 10% discount.
- ☐ My company is **not** a FINAT member. Before ordering, please send me information about the conditions of membership. Upon application, I will immediately benefit from the special FINAT member price of **€ 35** per copy.  
If I order 5 copies or more I receive a 10% discount.

## PAYMENT

- ☐ I will pay by bank  
Please send me an invoice (Purchase number, if any: .....)
- ☐ I will pay by creditcard     ☐ Mastercard     ☐ Visa  
(You will receive a direct cc payment link from Payperlink. Amex cards are not accepted.)

### Mailing address

Company: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Postal code and city: \_\_\_\_\_

Country: \_\_\_\_\_

VAT number: \_\_\_\_\_

Telephone number: \_\_\_\_\_

Fax number: \_\_\_\_\_

Email address: \_\_\_\_\_

### Invoice address (please fill in, if different than mailing address)

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Postal code and city: \_\_\_\_\_

Country: \_\_\_\_\_

Place & date: \_\_\_\_\_

Signature: \_\_\_\_\_

### Return to:

FINAT, P.O. Box 85612, NL 2508 CH The Hague, The Netherlands • [info@finat.com](mailto:info@finat.com)