

# PRODUCT FEATURES

PROPERTIES	EVA	PLANAMELT	PUR
Adhesive application	0.5-1 mm	0.2-0.7 mm	0.2-0.5 mm
Layflat	Medium to high stapling effect, pronounced bond coat	Low to medium stapling effect, positive effect on layflat characteristics, very good degree of flatness	Medium to high stapling effect normal layflat characteristics
Service life	Low	High	High
Temperature resistance	Low resistance to heat, poor performance at low temperatures	High resistance to heat as well as good low-temperature characteristics	High resistance to heat as well as good low-temperature characteristics
Durability	Usually sufficient pull resistance values	Good to very good pull resistance values	Good to very good pull resistance values
Versatility	Not suitable for heavy, coated papers	Suitable for virtually all conventional paper types	Suitable for all conventional paper types
Environment	No isocyanates in processing, generally easily recyclable	No isocyanates in processing, easy to use and eco-friendly, easily recyclable	Isocyanates used in adhesive production and processing, easily recyclable
Price/performance	High product requirement due to higher applied quantities, rapid charring of the adhesive in the systems, higher cleaning effort	Low process costs, simple melting apparatus sufficient, reduced cleaning effort, increased process stability. Using Planamelt, assignments can be taken on which would otherwise require investment in a PUR system.	High adhesive and process costs, complex machine and system technology as well as increased handling effort, as PUR requires air humidity for its chemical reaction.
Overall rating	EVA hotmelts are suitable for simple applications without any special requirements with regard to temperatures, physical loads or layflat characteristics. They are less suited to dealing with difficult paper types and develop a high stapling effect with books.	PLANAMELT is designed for universal use, copes well with difficult paper types and is suitable for all binding work. PLANAMELT ensures process reliability, is free from isocyanate and easily recyclable. A high level of cost-efficiency is achieved thanks to the low applied quantity and the reduced maintenance and cleaning effort on the machines.	PUR has high bonding strengths, but is "overqualified" for more simple paper types. Complex machinery and systems are required. The chemical reaction with air humidity and the contained isocyanates has disadvantages in terms of process control.

# PLANAMELT

A whole new league for binding adhesives



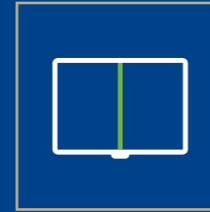
**No additional expenditure**  
Works in existing hotmelt systems not reactive systems



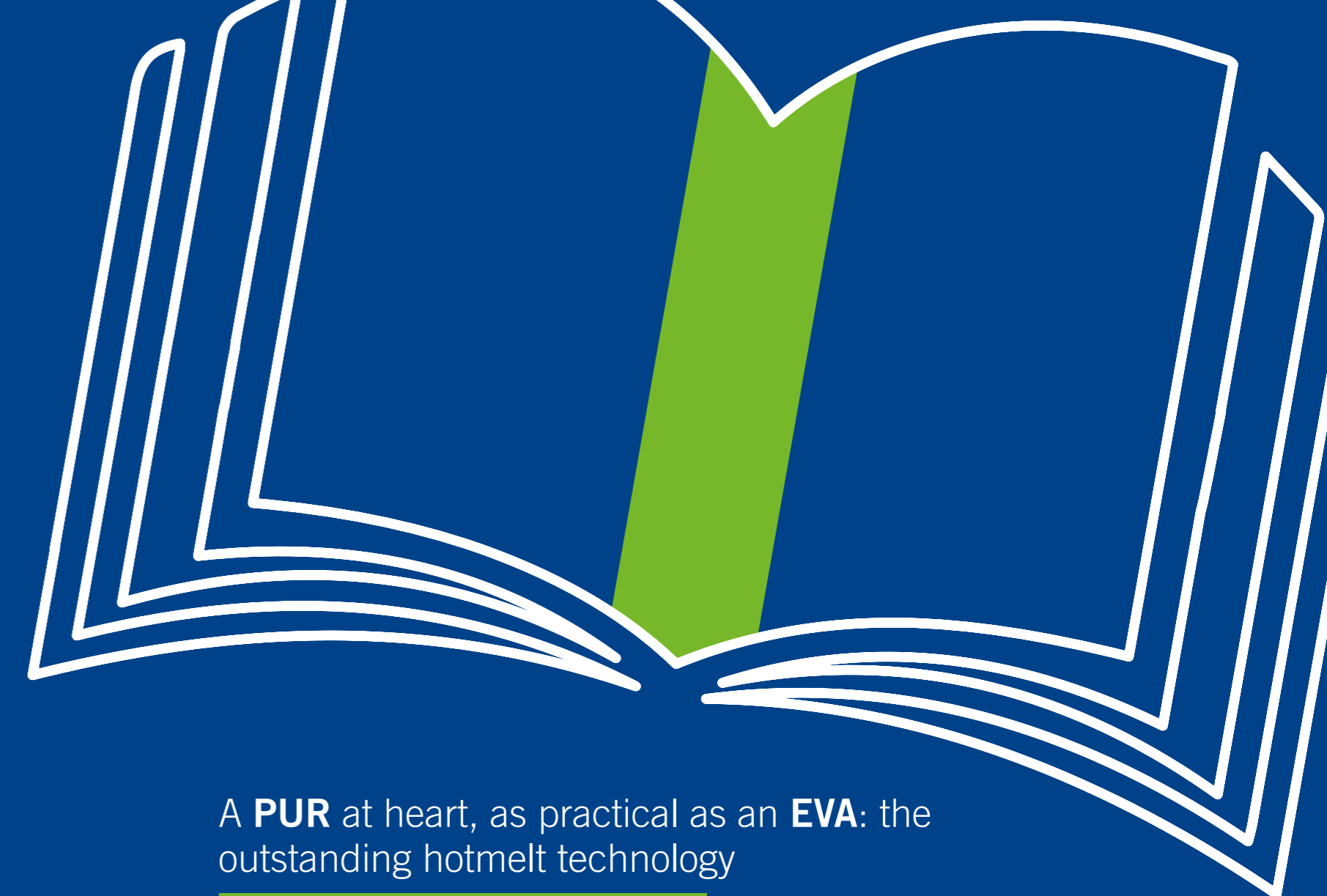
**Low consumption**  
Thin adhesive application



**Very strong bond**  
High pull resistance value even on difficult paper types



**Layflat binding**  
Excellent layflat characteristics



A **PUR** at heart, as practical as an **EVA**: the outstanding hotmelt technology

## PLANAMELT

We'll be happy to help

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Planatol assumes no responsibility for the topicality, correctness and completeness of the information provided or for deviating production results. All specifications relating to Planamelt and other adhesives are derived from test procedures that are standard within the industry and company. Results may deviate when using other adhesives, machines and materials.

The characteristics listed here are based on our 85 years of experience in the field of adhesives. Due to the many different substrates as well as varying machine settings and other environment variables, the characteristics described here may vary and have to be verified in each individual case.

Adhesive binding with Planamelt - **outstanding!**



**PLANATOL®**  
smart gluing

# PLANAMELT at a glance

## PLANAMELT Pro

- For gluing off thread-bound brochures
- Good rounding characteristics
- Very high adhesive strength on lacquered surfaces
- Also suitable for standard adhesive binding
- Even shorter open time than Planamelt W
- Also available as Pro W

## PLANAMELT R

- All-rounder for adhesive binding
- Very high adhesive strength
- Outstanding durability of adhesive binding
- Can also be used as side glue

## PLANAMELT HSP

- Specifically developed for very short processing lines
- Very short open time
- For small perfect binders
- Especially for digital printing and short runs

## PLANAMELT S

- Side glue & endpaper adhesion
- Outstanding adhesive strength on difficult surfaces

## PLANAMELT W

- Similar properties to Planamelt R
- Even better cohesion than Planamelt R
- Slightly shorter open time than Planamelt R
- White pigmented

## The all-rounder

among adhesives

Planamelt is a hotmelt technology that has been especially developed for the requirements of the graphic arts industry – making it the first choice when it comes to the adhesive binding and side glueing of all print products. The simple and convenient processing and the high quality of the adhesive binding speak for themselves. Heavy grade papers and grammages up to 250 g/m<sup>2</sup> can be processed reliably and cleanly with Planamelt. The result is clear for all to see: excellent cohesiveness of the adhesive binding, superb layflat characteristics, high stability with regard to heat, viscosity and adhesive properties.

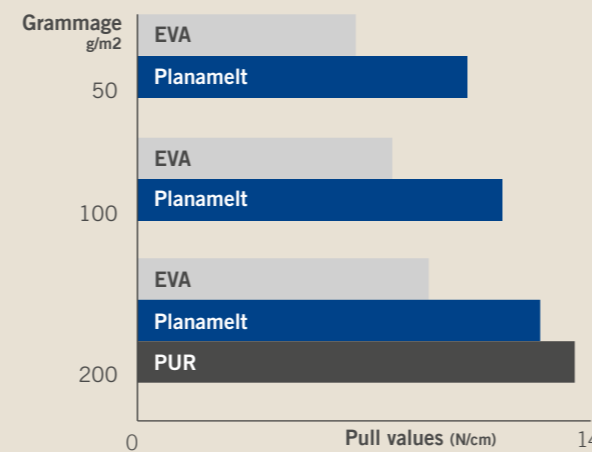
## Digital is now

PLANAMELT is the ideal solution for digital printing. Digital presses either work with toner or silicones. The problem with conventional EVA hotmelts is that they do not stick well on paper that is coated with toner or traces of silicone oil. As Planamelt does not, unlike PUR adhesives, require any ambient humidity for reaction purposes, a higher level of process reliability is ensured. Choosing PLANAMELT means being optimally equipped for the future: It is possible to combine different paper grades and grammages, and even foils, without having to change the adhesive. Individual printing, variable compilation and personalised finish.

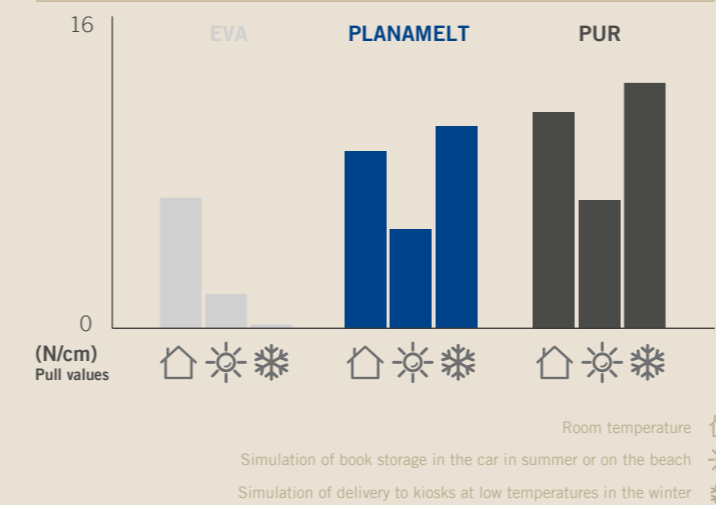
# PLANAMELT: the advantages of EVA and PUR adhesives in a single system

- Can be used for virtually all paper types and foils
- Low applied quantities
- Outstanding binding quality
- Highly resilient to heat and cold
- Good thermal stability of the melt
- Isocyanate-free, without special labelling
- Impressive layflat characteristics
- Quick and simple further processing
- Reduced costs for maintenance and replacement parts
- Virtually odourless
- Low process costs

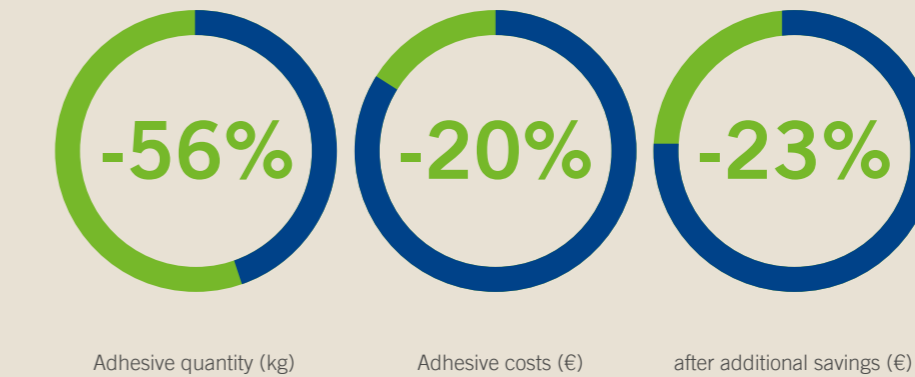
### Pull resistance values



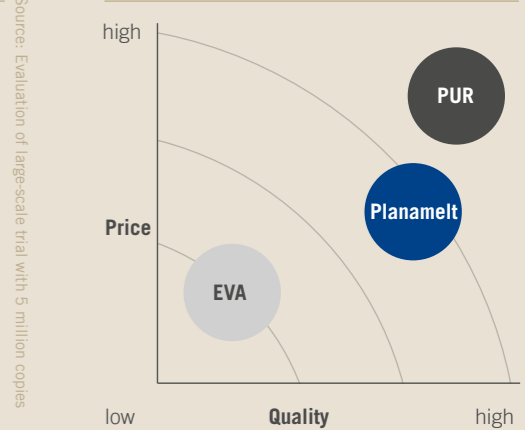
### PLANAMELT is resilient to heat and cold



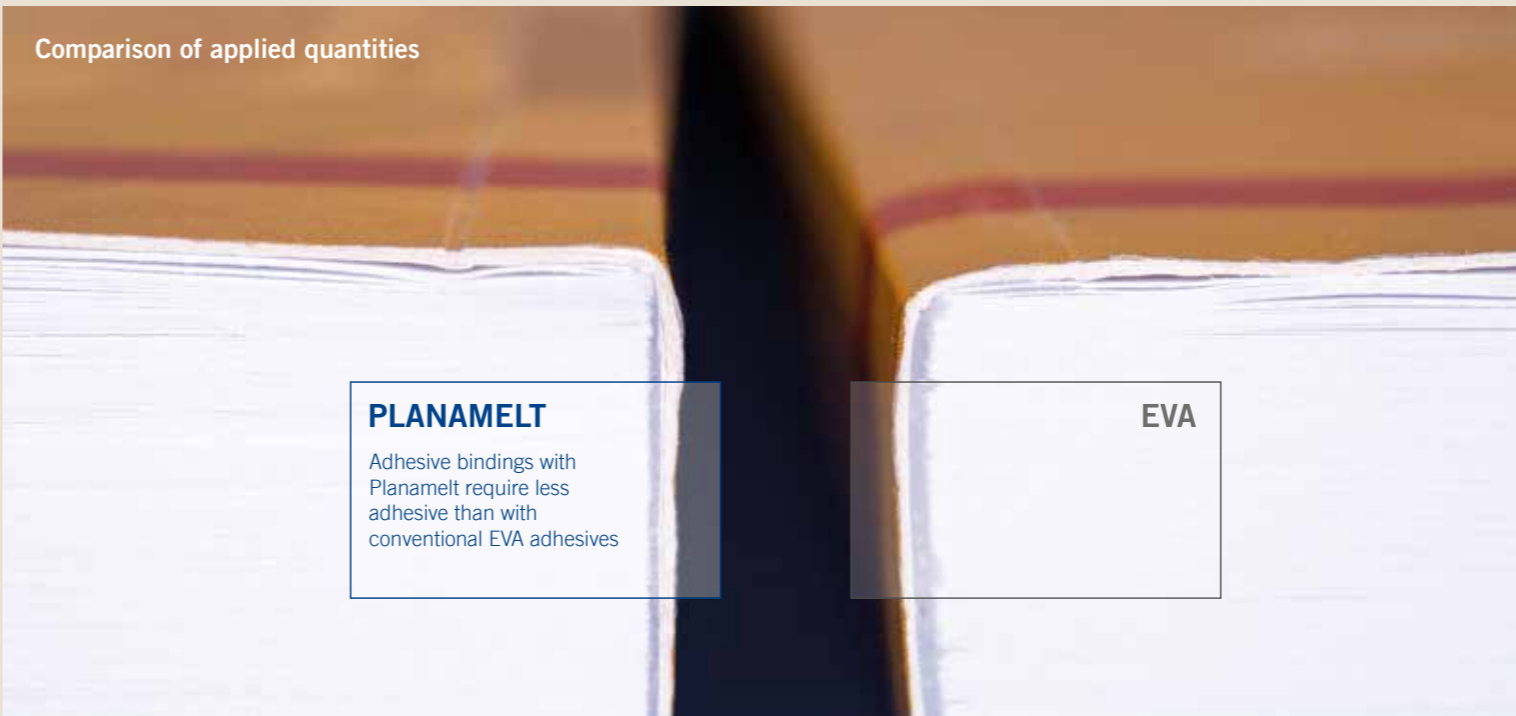
### PLANAMELT reduces costs



### Price/performance



### Comparison of applied quantities



#### PLANAMELT

Adhesive bindings with Planamelt require less adhesive than with conventional EVA adhesives

#### EVA

The benefits of Planamelt technology have been confirmed in industrial tests by machine manufacturers as well as in a study by the University of Applied Sciences in Munich.

In a test procedure with various paper grammages, Planamelt achieved consistently higher pull resistance values in direct comparison with the tested EVA technology. With a grammage of 200 g/m<sup>2</sup>, the cohesiveness of the adhesive binding was almost the same quality as a PUR adhesive.

Compared with EVA adhesives, Planamelt not only offers better adhesive properties but is also the better choice in economical terms thanks to the lower applied quantities. Planamelt also has advantages over the typical PUR technology due to the considerably lower price and process costs as well as its universal use and better process control.