



# Pad Printing Inks

Tailor-Made Solutions – Tradition and Vision

# Marabu

Your proactive partner for printing inks



Marabu is a world-leading manufacturer of screen, digital, and pad printing inks. The company is headquartered near Stuttgart, southern Germany – a region renowned for its pioneering technology and engineering prowess. For over 60 years, we have been developing inks that have repeatedly raised the bar for both industrial and graphic applications.

In conjunction with our international subsidiaries and selected sales partners, Marabu offers high-quality inks in over 80 countries. For us, success is all about helping our customers achieve efficient production processes. That is why our focus is squarely on quality, not quantity. And on developing tailor-made answers to specific needs – creating made-to-measure inks that enable significantly higher productivity and tangible cost savings. To this end, we also offer comprehensive technical support and practical training.

As a chemicals company, we understand the need to protect people and the environment. Moreover, Marabu has always been committed to business sustainability and we have consistently put these principles into practice.



## Marabu – facts and figures

- Founded in Stuttgart in 1859
- A family-owned business
- 14 subsidiaries worldwide
- Production sites: in Germany (Tamm and Bietigheim) and USA (Charleston)
- 490 employees worldwide
- Exports account for 80% of sales
- Certification to ISO 9001 (1995), ISO 14001, Sony Green Partner (2003)
- Member of EuPIA, CEPE, ESMA, BVDM

# Marabu Pad Printing Inks

Expertise based on over 40 years of experience



Enhanced and fine-tuned over decades, pad printing has become a firm fixture in the printing landscape. And it's not surprising: this technique offers unique solutions for some of the toughest surfaces. Suitable for a wide range of applications and substrates, this versatile process ensures first-rate results for decoration, marking, and identification.

## Marabu inks – exceptionally versatile

Designed to work effectively on all popular printing equipment, Marabu inks achieve impressive results even on difficult substrates – meeting the ever-changing challenges of your market. All around the globe, Marabu is synonymous with high-quality inks, manufactured to the highest QM standards.

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## Product Range

You can find the full range of Marabu pad printing inks in the product overview (complete with table of substrates) on our website.

# Our Products and Services

Standing out from the crowd

When it comes to pad printing inks, Marabu is a true technology leader. And we are not only dedicated to creating high-quality inks, we also maximise customer benefits through expert advice. Our experience guarantees exceptionally reliable results each and every time.

## What makes Marabu your trusted partner?

### Unparalleled expertise for all applications; leading-edge research and development

Would you like to maximise consumer confidence? Are you looking for halogen-free inks for printing on food packaging? Always one step ahead of the market, Marabu has the right answers. Our ongoing research and development enables us to design innovative products to meet our customers' very latest real-world challenges.



### Serious about sustainability

Marabu is committed to a better future for our planet. Since the founding of our company, corporate responsibility – particularly environmental protection – has been at the heart of our business. We employ a dedicated environmental protection officer and operate a department devoted to ensuring product safety. We abandoned the throwaway mentality a long time ago and implement the principles of sustainability across our organization. Plus, we systematically reduce hazardous substances in our products, making our standards among the highest in the industry.



Marabu is certified to DIN EN ISO 9001  
and DIN EN 14000

## Boosting productivity and efficiency

Equipment downtime harms productivity and impacts your bottom line. Reducing unnecessary costs is a must, and our high-quality printing inks can make all the difference. Benefits include highly reproducible printing results and more energy-efficient drying. All in all, Marabu inks allow you to work faster, with greater precision, greater uptime, and with lower power consumption



## Expert advice and assistance – wherever you are

Marabu's extensive international network of subsidiaries and partners in over 80 countries means you can count on first-rate support, wherever you are based. By turning to a local contact who speaks your language, you can leverage Marabu's in-depth industry experience to enhance your printing processes.



# Certified Safety

Product safety and environmental protection

At Marabu, we believe in maximising the safety of our products – and minimising their impact on the environment. We avoid using extremely harmful or hazardous substances in our inks, employing substitutes wherever feasible. And we are committed to ensuring that our entire portfolio is compliant with the EuPIA exclusion list for printing inks and related products.

Our product safety department ensures all our inks are up to standard – not only in terms of legal requirements but also in view of our customers' high expectations and the high standards we set ourselves. In this way, we guarantee first-rate products that comply with all applicable standards.



# Toys

## Brilliant colours – maximum safety

Pad printing is ideal for children's toys, from wooden figures to model cars. This incredibly flexible technique creates bright, durable designs on a wide variety of substrates. Marabu inks have been developed especially for this demanding application: free of heavy metals in line with DIN EN 71, part 3, they meet manufacturer specifications and legal requirements.

Toys must be colourful and appealing, but the ink must also offer outstanding resistance to chemicals and mechanical strain. Marabu products are up to the task, brightening playrooms without compromising on safety.



### Tampaplus TPL

- For high-speed printing systems
- Suitable for a wide variety of applications
- One- or two-component ink

### Librastar HF

- Very high resistance to alcohol
- Halogen- and cyclohexanone-free
- One- or two-component ink

# Tagless Printing

Free of harmful substances going beyond Oeko-Tex® Standard 100

## Ahead of its Time

Pad printing is a highly efficient, cost-effective process that conserves resources.



### Tampatex TPX

- Exceeds the specifications outlined in the Oeko-Tex® Standard 100
- Opaque shades
- Easy to work with
- Improved comfort for the wearer

### Tampapur TPU

- High gloss
- High resistance to mechanical strain and detergents
- Complies with the Oeko-Tex® Standard 100

**The future is tagless: rather than additional sewn-in labels, manufacturers are increasingly choosing to print brand names, size, and care instructions directly onto the inside of clothing. Pad printing is the ideal method for this application as it is resource-efficient and minimises waste.**

Fabric is elastic by nature and printed markings must stretch with the garment – making ink adhesion particularly important. Plus, the design must be capable of withstanding countless wash cycles. In both respects, pad printing is miles ahead of conventional heat transfer labels.

Pad printing offers a number of benefits for the textile industry: it eliminates the need for additional tag material and saves time and effort compared to sewn-on labels or tags applied with heat transfer. And that can only mean one thing: significant cost savings.

For tagless printing applications, Marabu offers a range of inks with exceptional adhesive properties. These products have been tested for harmful substances and certified to the rigorous Oeko-Tex® Standard 100 – meaning they not only fulfil legal requirements but also the high standards of manufacturers.

# Promotional Gifts and Office Equipment

## Adding a splash of colour to the office

### Promotional gifts

Advertising is colourful, brash, and can be found everywhere – including on promotional gifts. The huge array of substrates found in these items place substantial demands on ink in terms of adhesion, durability, and colour range. In response to these challenges, Marabu has created a portfolio of products that are very easy to process and suitable for this wide variety of applications.

### The perfect match

Inks for promotional gifts must be highly adhesive – and it is crucial that the colours correspond exactly to corporate designs. Marabu delivers on both counts, offering a large product range that ensures first-rate adhesion. By mixing and matching basic shades, you can create a broad palette of colours. And when combined with special-effect inks, these allow you to achieve practically any design.

### Office equipment

Printed designs on office equipment such as hole-punchers, staplers, and pens must look attractive – but they must also be precise, legible, and long-lasting. And because substrates can range from ABS, SAN, and polystyrene to aluminium, steel, wood, and varnished surfaces, the inks used must be particularly versatile.



#### Tampaplus TPL

- For high-speed printing systems
- Suitable for a wide variety of applications
- One- or two-component ink

#### Tampastar TPR

- Suitable for a wide variety of applications
- Highly resistant to petrol and alcohol
- One- or two-component ink

#### Tampatech TPT

- High gloss
- Maximum resistance to chemicals and mechanical strain
- Long two-component pot life



# Audio and Electronic Devices

## High-quality, highly resilient decoration

**Printed designs on audio and electronic devices must withstand chemical, thermal, and mechanical stress on a day-to-day basis.**

Audio and electronic devices are often decorated and marked with high-quality gold, silver, or other special-effect inks and include a diverse range of substrates such as ABS, polystyrene, polycarbonate, acrylic glass, and polyamide.

Marabu's pad printing inks rise to these challenges. Perfect for creating high-definition, exceptionally durable prints, our range features a broad palette of colours and special-effect inks – and is suitable for use on all manner of substrates.



### Quality and Durability

Incredibly resilient, Marabu inks can be used to print complex designs on a broad array of devices.



#### Tampacure TPC

- UV-curable
- Highly durable
- Suitable for a wide range of applications

#### Tampapol TPY

- High resistance to chemicals
- Suitable for a wide range of applications
- One- or two-component ink

#### Librastar HF

- Very high resistance to alcohol
- Halogen- and cyclohexanone-free
- One- or two-component ink

# Sports Equipment

Fit to face every challenge

**Sport demands a lot from players, but also from their equipment – and the ink it is printed with.**

When it comes to sports equipment, pad printing inks must tick a number of boxes: they must be high-gloss and highly opaque, show resistance to chemicals and mechanical strain, and offer a broad selection of colours and special effects such as metallics or glow-in-the-dark inks. There are as many designs as there are brands and manufacturers, and decorative printed elements must comply with the detailed standards defined in specification sheets. Marabu inks deliver on all accounts.



## Truly Versatile

Marabu pad printing inks are perfect for high-volume manufacturing processes – but are equally suited to producing extremely high-quality one-off results.



## Tampastar TPR

- Suitable for a wide variety of applications
- Highly resistant to alcohol and petrol
- Complies with the Oeko-Tex® Standard 100

## Tampapur TPU

- High gloss
- High resistance to mechanical strain and detergents
- Complies with the Oeko-Tex® Standard 100

# Packaging and Bottle Closures

Excellent results – high-speed processes



## Maximum Cost-Efficiency

Pad printing allows you to print hundreds of thousands of bottle closures every hour.



### TampaRotaSpeed TPHF

- Very fast-drying ink system for rotary pad printing
- Free of halogens and aromatic hydrocarbons
- One- or two-component ink

### TampaRotaSpeed TPRS

- Very fast-drying ink system for rotary pad printing
- Cyclohexanone-free
- One- or two-component ink

### Maraprop PP

- Satin gloss
- For untreated polypropylene

**First impressions can make all the difference when it comes to product packaging. Marabu's high-quality pad printing inks bring out the best in your packaging designs, ensuring your product makes a real impact.**

Manufacturers of cosmetics and household goods must decorate and mark products such as containers, bottle closures, and smaller items like cream jars, lipstick cases, or moulded plastic pieces. For widely used substrates such as pre-treated polyethylene and polypropylene, polystyrene, or glass, the ink must ensure particularly high opacity and resistance to packaged contents.

Pad printing is ideal for this kind of three-dimensional packaging. It can be used to create detailed designs, offers a wide variety of brilliant colours, and produces highly durable results. Marabu inks deliver maximum opacity, come in countless bright and beautiful shades, and are suitable for the most diverse substrates. Plus, our range includes special inks that, as tests have shown, ensure very low migration through the substrate.



# Medical Products

Where safety is of the essence



## Tampastar TPR

- Suitable for a wide variety of applications
- Resistant to alcohol and petrol
- One- or two-component ink

## Tampapur TPU

- High gloss
- High resistance to mechanical strain and detergents
- Complies with the Oeko-Tex® Standard 100

## Maraprop PP

- Satin gloss
- For untreated polypropylene

**Safety is the number-one priority when designing medical devices – and when creating Marabu inks. When products are used in operating theatres, it is imperative that the ink used does not contain harmful substances and cannot flake off .**

Ink for printing on medical equipment must fulfil certain requirements. It is expected to conform to standards such as the United States Pharmacopeia Testing – Biological

Reactivity Testing in Vivo, Plastic Class VI (USP Class VI). Moreover, it must be ensured that no ink ingredients make their way into the human body. Marabu inks rise to these challenges.

Medical products also include glasses and hearing aids which can be marked or decorated. Marabu printing inks comply with DIN EN 71, part 3 and are durable enough to withstand sterilisation products and processes.



# Automotive

## Perfect solutions for challenging applications

When buying a car, customers scrutinise every last detail – particularly when it comes to design. And as consumers become more discerning and quality and safety regulations become stricter, pad printing inks and processes must keep pace.

Automotive applications place high demands on printing inks: they must be resistant to temperature and weather extremes, highly opaque, resistant to sweat, abrasion, and cleaning products, and adhere well to a variety of materials. Marabu offers the ideal solution to these challenges.



### Tampaflex TPF

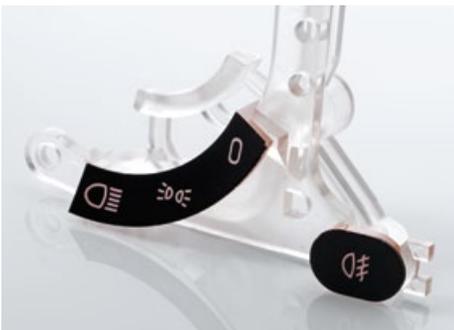
- Suitable for TPE and soft-touch finishes
- Flexible
- Resistant to chemicals

### Tampapur TPU

- High gloss
- High resistance to mechanical strain and detergents
- Complies with the Oeko-Tex® Standard 100

### Tampapol TPY

- High resistance to chemicals
- Suitable for a wide variety of applications
- One- or two-component ink



### High-Quality Look and Feel

Marabu inks are tailor-made for printing on speedometer needles, control buttons, display elements, and engine covers.

# Technical Markings

Crisp, clear, and durable

Icons, scales, and other markings on electrical switches, nameplates, and dials are important sources of information and guidance. Pad printing is ideal for these applications. It creates highly durable results, can be easily integrated into production lines, and is suitable for substrates such as ABS, polyamide, POM, varnished surfaces, and metals.



## Tampacure TPC

- UV-curable
- Highly durable
- Suitable for a wide range of applications

## Tampastar TPR

- Suitable for a wide variety of applications
- Resistant to alcohol and petrol
- One- or two-component ink

## Tampapur TPU

- High gloss
- High resistance to mechanical strain and detergents
- Complies with the Oeko-Tex® Standard 100



**The Perfect Ink for Every Substrate**  
From plastics to metals – when it comes to printing on technical products, Marabu inks offer maximum durability on a wide range of substrates.

# Glass and Ceramics

## Scratch-resistant ink systems

Marabu specialises in organic inks for glass; a highly effective and energy-efficient alternative to ceramic enamels. Our solvent-based ink systems score highly on adhesion and come in a variety of colours and special effects – plus they are scratch-resistant, dishwasher-safe and free of heavy metals. When mixing colours, another key benefit comes to the fore: reproducing your corporate colours is

much easier with organic inks. And in comparison to ceramic enamels, the final shade is visible immediately after printing.



### Tampatech TPT

- High gloss
- Maximum resistance to chemicals and mechanical strain
- Long two-component pot life

### Glasfarbe GL

- Satin gloss
- Dishwasher-safe



### Durable and Versatile

When printing on glass and ceramics, Marabu ink systems allow you to create a wide variety of designs that will stand the test of time.



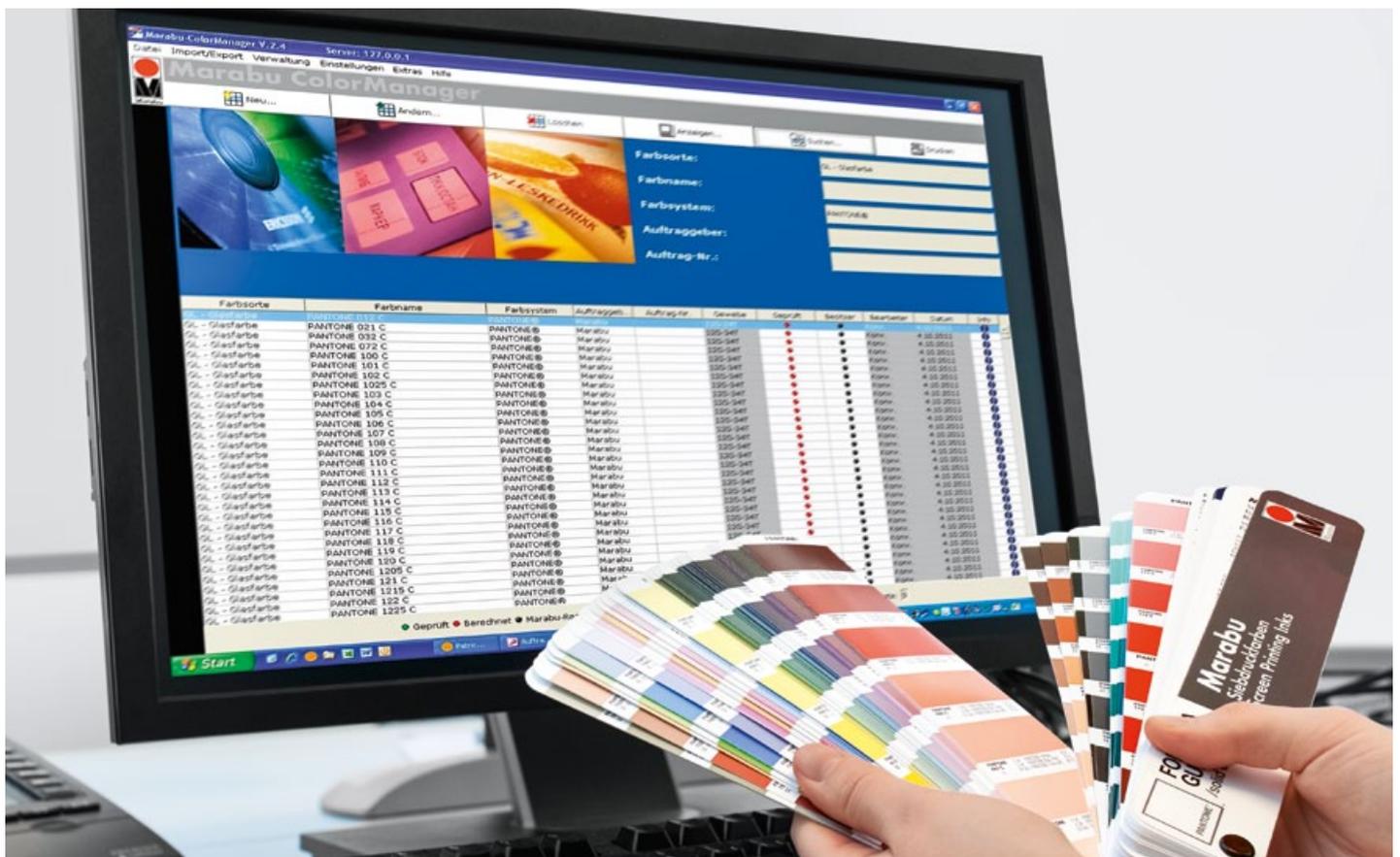
# Colour Management

For perfect reproducibility every time

Graphic and product designers take colour selection very seriously – and have very precise ideas about how the finished results should look. In order to guarantee the best quality and maximum reproducibility, Marabu offers tried-and-tested tools specially designed to meet these high standards.

## Colour matching made easy

Finding precise colour matches has never been so easy – thanks to our high-performance, user-friendly **Marabu-ColorManager MCM 2** software. A comprehensive database includes PANTONE®, HKS®, and RAL colour matching systems for screen and pad printing. The **Marabu-ColorFormulator MCF**, on the other hand, works completely independently of colour reference systems: this database is linked to a spectrophotometer, allowing you to create precise reproductions of your colour samples and ensure optimum printing results. We also offer automatic ink dispensing systems: **Marabu-ColorDispenser**. Simple, user-friendly operation and maintenance makes these systems stand out from the crowd, as they allow you to create a perfect colour mix at the touch of a button.



# Research and Development

Always thinking ahead

When it comes to quality and productivity, our inks and liquid coatings raise the bar every time. This process of continuous improvement is based on more than 60 years' in-depth expertise and experience. And it is complemented by our proactive philosophy of "thinking ahead". That means that we regard each and every job as a new challenge – and so we strive to develop solutions that truly fulfil your specific needs today and tomorrow.

## Quality begins with raw materials

We leave nothing to chance – starting with the suppliers of our raw materials. Long-standing, reliable partnerships ensure that only the best, purest raw materials go into our inks. And our inks are manufactured to the strictest tolerances. In other words, they are products that deserve the label "Made in Germany".

## Designed for real-world needs

Our inks are the result of a multi-stage process. Developers, engineers, and product managers all play a part. In addition, selected pilot customers are involved from the beginning. Marabu inks are subjected to numerous tests to verify that they meet real-world requirements. Only then are they good enough for our customers.

## Dispersion

Our state-of-the-art production equipment, from leading bead mill manufacturers, delivers extremely finely dispersed pigments. This guarantees perfect results every time – for smooth, trouble-free printing processes.



## Fine-Tuning

Through a combination of multiple analytical methods and devices, we ensure that the physical and chemical properties of our inks are geared to the precise requirements of your applications.



## Quality Control

Marabu inks offer exceptionally consistent quality across all batches and in line with precise specifications. For example, all pad printing inks are passed through a multiple filtration process, and feature exceptionally high sedimentation stability.

## Light-Fastness and Weathering

Marabu tests long-term effects using simulated accelerated weathering according to DIN standards, as well as natural weathering under real-life conditions. Our extensive experience guarantees robust products that are ideal for outdoor applications.

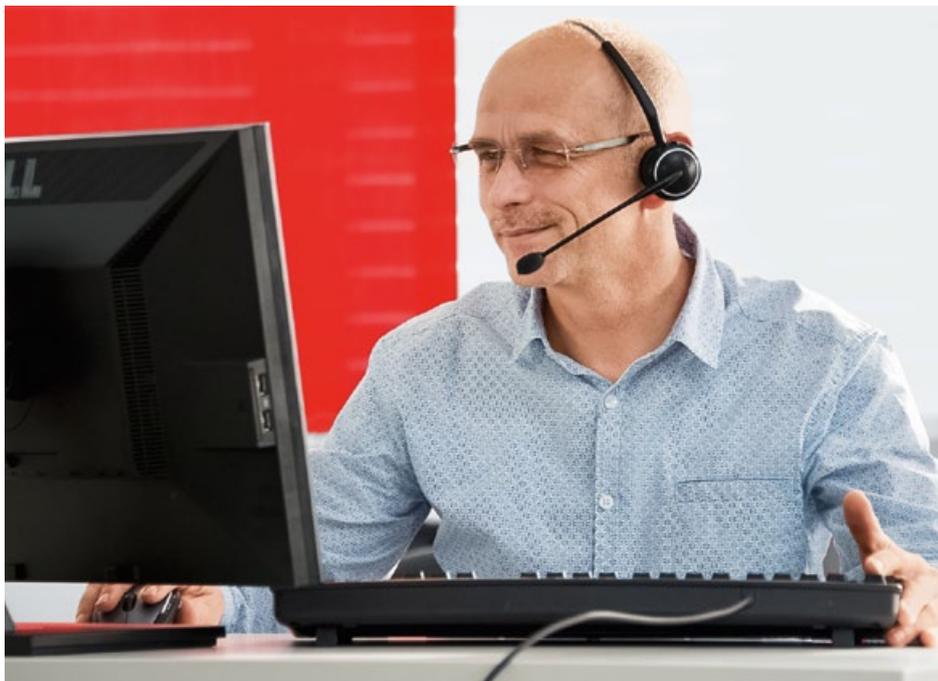
# Service and support

Expert advice and assistance – available globally and locally

When you partner with Marabu, you benefit from a unique combination of exceptional product quality and expert advice and assistance. Our screen printing inks ensure maximum productivity and cost savings. And thanks to our global network

of sales partners and subsidiaries, you have access to our extensive know-how no matter where you are based. You benefit from the greatest possible support at all times – and rapid, reliable supply to anywhere in the world.

- **International service and support network** of subsidiaries and carefully selected partners – offering advice and assistance, wherever you are
- **Experienced specialists** have extensive knowledge of all our products and can advise you on the right solution for your specific needs
- **Skilled professionals** help you select the best solution in terms of technology and cost-effectiveness
- **State-of-the-art databases** generate tailored solutions for all applications
- We offer a **proofing service** on original substrates in line with your needs: helping you find the ideal inks and integrate them into your production processes
- **Interdisciplinary teams** comprising both R&D experts and product managers work together to design made-to-measure solutions for our customers
- Our **training centre** offers courses, seminars, and more – tailored to selected markets or specific customer needs



## **An expert partner to our customers**

Services such as the Marabu hotline give you direct access to our expertise. We view our relationship with customers as a genuine partnership. We can help you resolve your challenges on-site and offer theoretical and practical training to give you a decisive edge in your market.



Marabu

## Get in touch with Marabu

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