



Marabu

The Ink Specialist for Touch Screens

Why Choose Marabu?

- Marabu – strong in 3C; committed to the future 3C market
- Offering several generations of traditional solvent-based inks
- First in UV inks for glass – leading the transition to UV technology
- Onsite technical assistance by print specialists
- Ongoing commitment to innovative Research & Development

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.

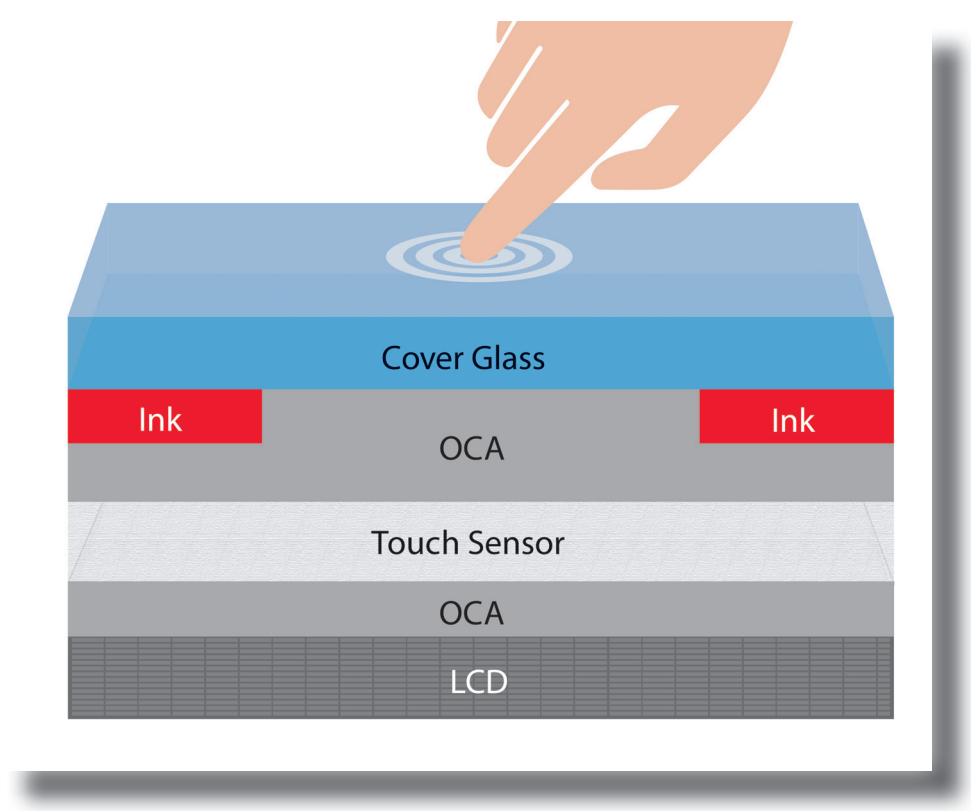


Marabu – facts and figures

- Founded in Stuttgart in 1859
- A family-owned business
- 15 subsidiaries worldwide
- Production sites: in Germany (Tamm and Bietigheim), USA (Charleston) and Paraguay (Ciudad del Este)
- 500 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

Ink for Cover Glass

Maraglass MG3C



Main characteristics of Maraglass MG3C:

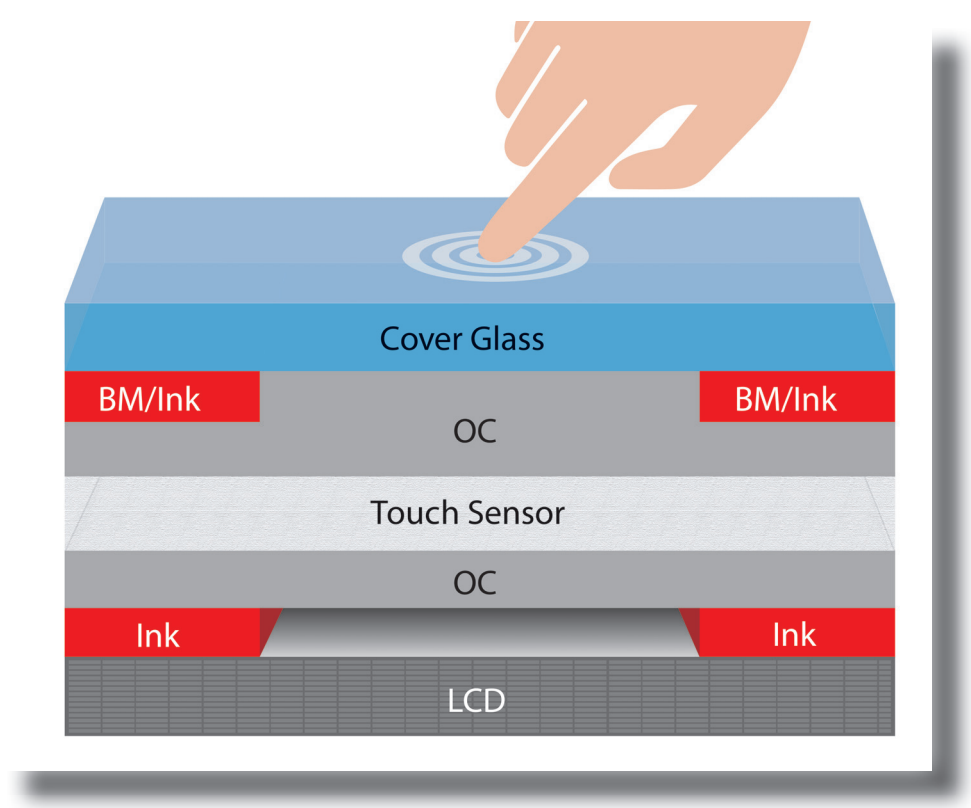
- Excellent Adhesion to Glass Substrate
- High Electrical Resistance: $>10^{12} \Omega$
- High Chemical Resistance
- Very Good Printability

Test	Reference / Standard	Pass criteria	Results
Adhesion	ISO 2409 / ASTM 3359-2 / JIS5600-5-6	Cross hatch test	GT 0 / 5B
Boiling Water	Marabu Standard	60 min. @ 99°C water, cross hatch test	GT 0 / 5B
Heat Soak	Marabu Standard	72 h @ 65°C, 95% RH	No Defect
Alcohol Resistance	99,8% Alcohol	850 g x 100 double rub strokes	No Defect
Opacity	Marabu Standard	1 layer, 420 mesh	> 5.0
Electrical Resistance	Marabu Standard	Tera-ohmmeter TO-3	$> 10^{12} \Omega$
Pot Life	Marabu Standard	> 4 hours	

These test results are only for our lab purpose. We do not guarantee the results.

Ink for One Glass Solution

Maraglass MGHT



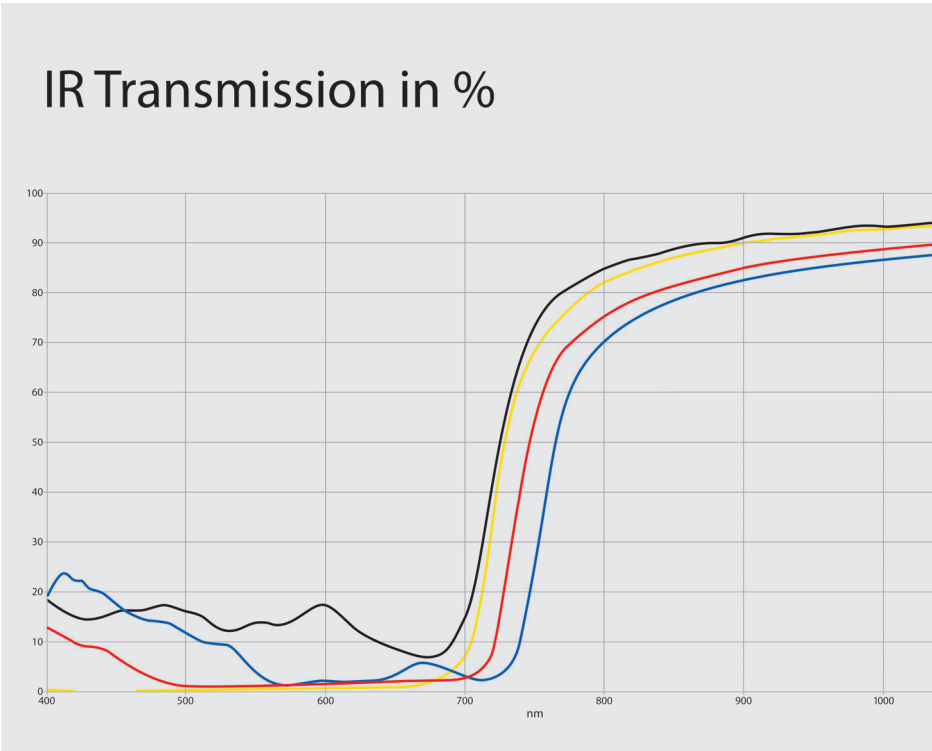
Main characteristics of Maraglass MGHT:

- Excellent Adhesion to Glass substrate
- High Electrical Resistance: $>10^{12} \Omega$
- High Thermal Resistance
- High Opacity

Test	Reference / Standard	Pass criteria	Results
Temperature Resistance	Marabu Standard	Up to 300°C	No Defect
Adhesion	ISO 2409 / ASTM 3359-2 / JIS 5600-5-6	Cross hatch test	GT 0 / 5B
Boiling Water	Marabu Standard	60 min. @ 99°C water, cross hatch test	GT 0 / 5B
Heat Soak	Marabu Standard	72 h @ 65°C, 95% RH	No Defect
Alcohol Resistance	99,8% Alcohol	850 g x 100 double rub strokes	No Defect
Opacity	Marabu Standard	1 layer, 420 mesh	> 5.0
Electrical Resistance	Marabu Standard	Tera-ohmmeter TO-3	$> 10^{12} \Omega$
Pot Life	Marabu Standard	> 4 hours	

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Maraglass Specials



Main characteristics of Maraglass Specials:

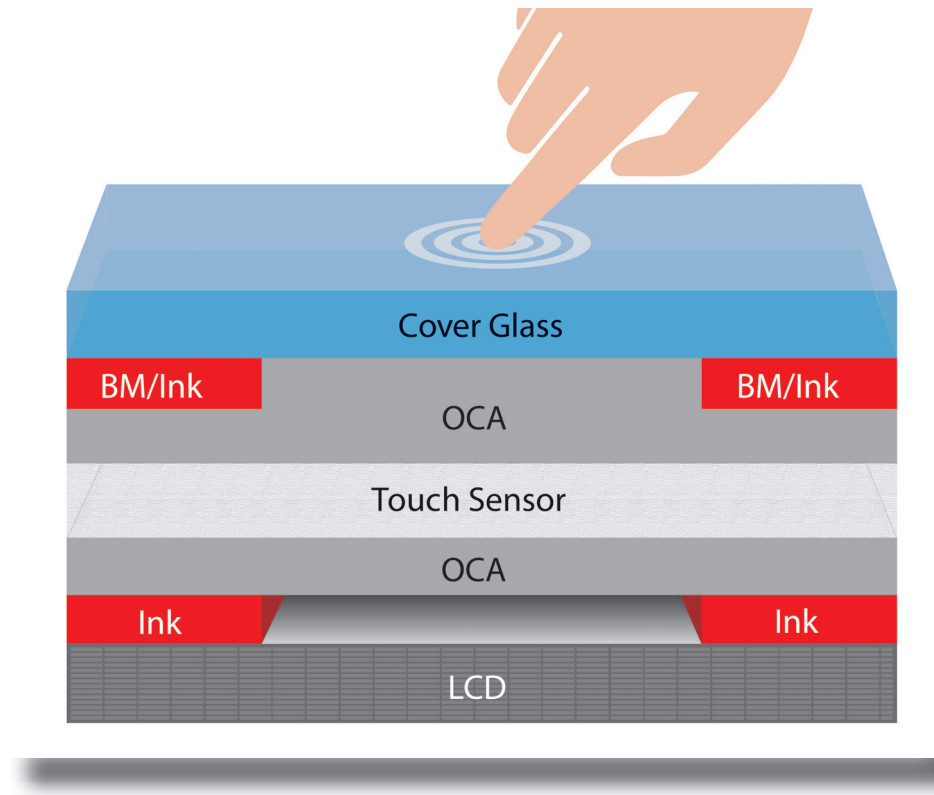
- High IR Transparency
- High Electrical Resistance: $>10^{12} \Omega$
- Excellent Adhesion to Glass Substrate
- Low Surface Roughness

Test	Reference / Standard	Pass criteria	Results
Transparency Rate	Marabu Standard	Perkin Elmer, lambda 35, UV / VIS, Spectrometer	$> 80\%$ above 850 nm $< 10\%$ below 650 nm
Adhesion	ISO 2409 / ASTM 3359-2 / JIS 5600-5-6	Cross hatch test, 3M tape	GT 0 / 5B
Boiling Water	Marabu Standard	60 min. @ 99°C water, cross hatch test	GT 0 / 5B
Heat Soak	Marabu Standard	72 h @ 65°C, 95% RH	No Defect
Alcohol Resistance	99,8% Alcohol	850 g x 100 double rub strokes	No Defect
Electrical Resistance	Marabu Standard	Tera-ohmmeter TO-3	$> 10^{12} \Omega$
Pot Life	Marabu Standard	> 4 hours	

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UV-curable Ink

Ultraglass UVG3C for BM1 / BM2



Main characteristics of Ultraglass UVG3C:

- Excellent Adhesion to Glass Substrate
- High Electrical Resistance: $>10^{12} \Omega$
- High Chemical Resistance
- High Opacity

Fusion UV Tunnel: 341 mJ / cm²

UV light	mJ / cm ²	mW / cm ²
UV A	546.03	5158.6
UV B	178,69	1729.3
UV C	24.75	241.76
UV D	525.68	4875.3

Band speed 10 m / min., lamp D Iron

Test	Reference / Standard	Pass criteria	Results
Adhesion	ISO 2409 / ASTM 3359-2 / JIS 5600-5-6	Cross hatch test, 3M tape	GT 0 / 5B
Boiling Water	Marabu Standard	60 min. @ 99°C water, cross hatch test	GT 0 / 5B
Heat Soak	Marabu Standard	72 h @ 65°C, 95% RH	No Defect
Alcohol Resistance	99,8% Alcohol	850 g x 100 double rub strokes	No Defect
Opacity	Marabu Standard	1 layer, 420 mesh	2,7 ± 0,2 (UV black)
Electrical Resistance	Marabu Standard	Tera-ohmmeter TO-3	$>10^{12} \Omega$
Pot Life	Marabu Standard	>8 h	

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Service and Support

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Expert Advice and Assistance - Available Globally and Locally

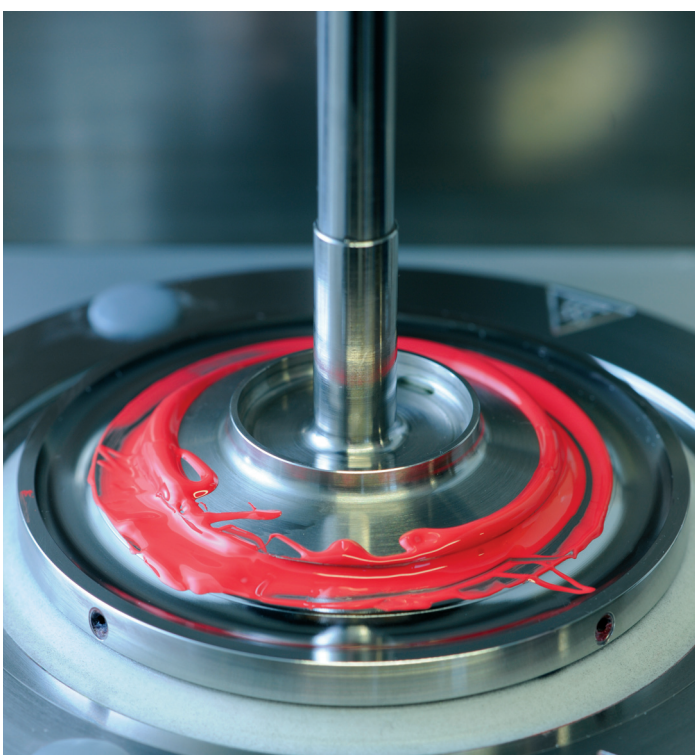


When you partner with Marabu, you benefit from a unique combination of exceptional product quality plus expert advice and assistance. Our printing inks ensure maximum productivity and resulting cost savings.

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 - including rapid and reliable supply to anywhere in the world.

Research and Development

Always Thinking Ahead



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

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 subject to numerous tests to verify the fulfilment of real-world requirements. Only then they are good enough for our customers.



Marabu

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