

## Tampa® Tex TPX and GMP („Good Manufacturing Practice“) Printing of Food Contact Materials according to EuPIA GMP

Pad  
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Tampa® Tex TPX was developed for textile printing but has proven itself for many other applications and substrates. A steadily growing market is that of products with indirect food contact (“FCM” = Food Contact Material), such as baby bottles or lunch boxes. There are special requirements for these products.

### Tampa® Tex TPX = GMP-compliant

Thanks to the formula change in April 2023 and analyses at several institutes, we can confirm the **suitability of Tampa® Tex TPX for use on products with indirect food contact.**

This applies exclusively to TPX standard shades produced and filled at Marabu Germany as of week **18/2023** (batch code **318**). All production batches before this date are not GMP-compliant and therefore excluded from suitability.

### Auxiliaries

There are strict guidelines for the indirect printing of food contact materials. Therefore, we have qualified several auxiliaries recommended for TPX. They are manufactured, analyzed, and stored separately in accordance with the requirements. The qualified auxiliaries can be identified by the prefixed „G“ for **GMP** (e. g. Hardener G-H 2). The confirmation does not apply if other auxiliaries are used.

Auxiliary	Product name	Addition*
Thinner, standard	G - TPV	10 - 30 %
Thinner, fast	G - TPV 2	10 - 30 %
Thinner, slow	G - TPV 8	10 - 30 %
Thinner, slow	G - GLV	5 - 15 %
Hardener, fast	G - H 2	15 - 30 %
Cleaner	G - UR 5	-

\* Recommended added quantity which may vary depending on application and machine type.

### Test parameters

We tested a baby bottle made of PP. The parameters can be seen in the following chart:

Pre-treatment	Thermal, Plasma
Material	PP > 1 mm
Ink layers	Max. 6 à 10-12 µm
Drying	2 h / 50 °C + 7 days room drying
Food simulants	B and D1
Migration test parameters	Repeated use (3 x 24 h / 40 °C)

### Migration analysis

The migration analysis with the selected parameters is intended to cover the typical application conditions and to prove that TPX is suited for the production of GMP-compliant products. The final responsibility for conformity, however, remains with the manufacturer of the printed FCM. Therefore, we recommend that you always carry out your own migration analysis, especially in the event of major deviations from our tested parameters, in order to check the real conditions on site.

## Custom inks and GMP compliance

Due to legal requirements and traceability, the GMP compliance applies only to **TPX standard shades produced and filled at Marabu Germany**.

**TPX custom inks** from Marabu Germany are generally **not GMP-compliant**. The same applies to custom inks produced by our sales partners and subsidiaries.

Non-GMP-compliant TPX custom inks from Marabu Germany will be labelled **TPX-N** in the future. The "N" in this case stands for "**Non-GMP**".

If a GMP confirmation for TPX custom inks is required this can only be provided after prior clarification, as additional analyses and costs are involved.

As an alternative and for legal reasons, we recommend that you, as the end customer, mix the custom shades yourself from the GMP-compliant standard shades on your own responsibility. For this, we refer to the mixing formulas of our Marabu ColorManager MCM.

## Further information on GMP

„GMP / Indirect Food Contact“ is a very sensitive and complex topic. For this reason, in addition to this special TechINFO on our ink series TPX, we have prepared another TechINFO with general GMP information.

On [www.marabu-inks.com](http://www.marabu-inks.com) you will learn what GMP means, how it differs from "low-migration", and much more.

## Contact

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