

TIGITAL® UV-LED 3D Ink – Series 150/3

Properties

Density	25 °C	1,01 – 1,10 g/cm ³
Viscosity	50 °C	18 – 26 mPa s
Surface tension	25°C	30 - 36 mN/m
Curing Methode	UL-LED (395 nm) 750 – 1000 mJ/cm ²	
Brake through voltage	➤ 150 kV/mm	

Colours

- 150/31001 – varnish HARD
- 150/31002 – support material
- 150/31003 – varnish SOFT
- 150/31101 – white HARD
- 150/31801 – black HARD

Shelf life

9 months for storage between 10 and 35°C.

Package sizes

- 1 l HDPE Bottle (black)
- 5 l HDPE Canister (black)
- 20 l HDPE Canister (black)
- 1000 l HDPE IBC (white)

Applications

TIGER 3D Inks are designed for UV-LED curing. They are acrylate-based systems that can be used as insulating inks with a brake through voltage of > 150 kV/mm. These inks were developed for use in DOD piezo printing heads.

Depending on the mixture of the inks either hard or soft materials can be produced.

Printing and Curing Conditions

The inks can be processed at temperatures up to 75 °C. Use the layer thickness of the printed layer as a guide for determining the UV dose required; the dose of 750 – 1000 mJ/cm² specified above corresponds to the typical radiation dose from a 4W or 8W UV-LED with a peak emission of 395 nm UV-LED on a layer thickness of 10 – 15 µm.

Compatibility of materials

Compatible materials:

- PP
- PE(HD+LD)
- Stainless steel
- EPDM rubber
- PTFE etc.

Incompatible materials:

- PVC
- Butyl Kautschuk
- Messing
- Viton®
- Nitrilkunststoffe
- Polyurethan-Gummi
- Neopren

Recommended cleaning and flushing fluid

TIGER Flush 151/00001

Disclaimer

Our verbal and written recommendations for the use of our products are based upon experience to the best of our knowledge in accordance with present technological standards. These are given in order to support the buyer or user. They are non-binding and do not constitute any contractual legal relationship or additional obligation from the purchase

agreement. They do not re-lease the purchaser from verifying the suitability of our products for the intended application at his own responsibility. We warrant that our products are free of flaws and defects to the extent as stipulated in our Terms of Delivery and Payment.

As part of our duty to inform, we modify our product information periodically according to technical progress. Therefore the most recent valid version of this information is applicable and is available at any time from the Download area at www.tiger-coatings.com. TIGER Coatings GmbH & Co. KG reserves the right to make changes to the product data sheet without written notification.

This Product Data Sheet substitutes any and all previous Product Data Sheets and notes for customers published on this subject matter and is only intended to give a general product overview. When using a product not included in our standard product line according to the standard product list (last valid version), the corresponding Product Data Sheet must be requested.

Our technical notes and the general Terms of Delivery and Payment, the most recent version of which you can call up

at any time at www.tiger-coatings.com in the download area, are an integral component of this data sheet.

certified according to
EN ISO 9001 / 14001



TIGER Coatings GmbH & Co. KG
Negrellistraße 36 | 4600 Wels | Austria

T +43 / (0)7242 / 400-0
F +43 / (0)7242 / 650 08

E tigital@tiger-coatings.com W www.tiger-coatings.com