

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

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