

NoriGlass TPI

Glass Decorating Ink - silicone free



Innovative Inks & Functional Lacquers

Field of Application:

Screen printing ink for the decoration of glass, particularly for symbols of touch switches and for backlit displays. The ink system shows good adhesion on various metals and ceramics.

Properties:

This organic screen printing ink system provides very high resistance to aqueous household cleaners, hand and machine dishwashing detergents as well as to chemicals and solvents like aliphatic and aromatic hydrocarbons, alcohols, greases, oils and hydraulic fluids.

- Glossy, solvent-based screen printing ink
- High-grade pigments – heavy metal free
- Good scratch and chemical resistance
- Silicone free and halogen free (depending on pigments)
- Cyclohexanone free
- Solvents are free of aromatic hydrocarbons
- Basic and Standard Colors

Processing:

- Extensive mesh opening time, no drying in mesh
- Pot life of 8 h
- Overprintable after 3 min forced drying
- Only one final curing step:
 - Min.: 20 – 30 min / 140 °C (285 °F)
 - Max.: 30 min / 180 °C (356 °F)
 - Accelerated: IR-supported Jet-drying
 - 100 s / 130 °C (266 °F) + 100 % IR

Basic Colors

093 Colorless HF	412 Pink Transparent HF
102 Citron HF	429 Red Violet HF
112 Yellow HF	471 Violet Transparent HF
171 Yellow lasierend	566 Blue Transparent HF
225 Orange HF	665 Green HF
321 Bright Red HF	945 White HF
368 Red Transparent HF	948 Black HF

Standard Colors

930 Titanium White HF	960 Deep Black HF
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Special Colors

734 Silver HF	770 Silver HF
750 Magnetic Effect HF	



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NoriGlass TPI 930 Titanium White and 960 Deep Black

Field of Application:

Higher opaque color-shades for the decoration of touch displays and switches.

Composition:

- Silicone free
- solvents are free of aromatic hydrocarbons
- Cyclohexanone free
- Halogen free (depending on pigments)

Processing:

- Extensive mesh opening time, no drying in mesh
- Pot life of 8 h
- Optimized for fine meshes
- Overprintable after 3 min forced drying
- Only one final curing step:
 - Min.: 20 – 30 min / 140 °C
 - Max.: 30 min / 180 °C
 - Accelerated: IR-supported Jet-drying
→ 100 s / 130 °C + 100 % IR

Technical Properties:

- Very high optical density, especially suited for display-frames:
 - TPI 960: OD ~ 5 at 7 µm layer thickness
- Very high Surface Free Energy for an excellent bondability:
 - TPI 930 and 960: SFE ~ 50 mN/m
- Very high degree of whiteness:
 - TPI 930: L* ~ 90; b* ~ 0
- Very high Electrical Resistance:
 - TPI 960: R ~ 700 GΩ at 5000 V

