

Product Description

Dycotec DM-INI-7003 is an ink-jet printable ink that is designed to provide an ultra durable insulator layer for electronics applications. The ink can be rapidly cured using UV-LED systems. The ink system offers excellent adhesion to many substrates including glass and ITO-glass. The ink can be overprinted with conductive inks provided by Dycotec Materials.

Product Benefits

- Good Printability
- High Abrasion Resistance
- Excellent Adhesion

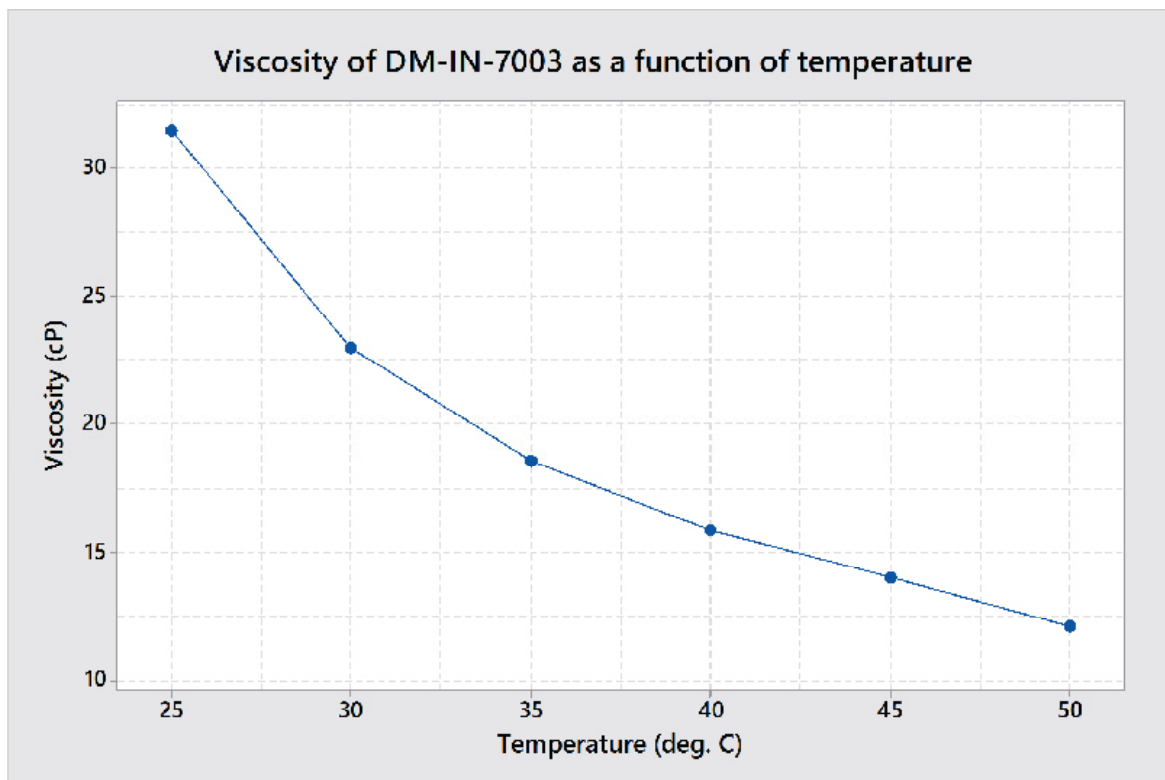
Ink Preparation

The ink is packaged to avoid all sources of UV light, sunlight, and fluorescent lights. Thoroughly swirl (not shake) the ink before use to ensure the product is well mixed and to avoid introducing air bubbles. Do not replace used ink in the container. This ink is designed for drop-on-demand print-heads.

Properties of the uncured ink

Test	Properties
Viscosity	10-16 cP at >40°C
Surface Tension*	34-36 mN/m
Substrate compatibility	Glass, ITO-Glass, Plastics, FR4

*Surface tension may be lowered for particular applications. Please contact info@dycotecmaterials.com for more information.



Ink Curing Conditions

Test	Properties
UV LED Wavelength	380 – 390 nm
UV Curing Energy	500-1000 mJ/cm ²

LED-UV development curing systems can be supplied by Dycotec Materials.
For further information, please contact info@dycotecmaterials.com.

Properties of the Cured Paste

Test	Properties
Pencil hardness scale	8H
Adhesion	5B
Volume Resistivity	$1.4 \times 10^{14} \Omega \cdot \text{cm}$
Surface Resistivity	$8.2 \times 10^{12} \Omega / \square$

Storage and Shelf-life

Containers should be stored as specified with lids tightly sealed. We cannot assume responsibility for an ink that has not been stored in appropriate conditions or where the ink has been contaminated following use. Equipment can be cleaned using alcohols such as propanol.

Safety and Handling

For safe use of this product, please review relevant material safety and datasheet (MSDS).

For more information, please contact:

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All information reported in the datasheet is for experimental work undertaken in our laboratories and illustrates typical values only. Processing conditions may vary depending on customers' experience and their application requirements and manufacturing process equipment set-up.

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