

Product Description

Dycotec DM-OCI-6002 is a 100% solid UV curable ink for ink-jet printing for general electronic application use. No drying is needed prior to ultraviolet (UV) curing. The ink is designed to be rapidly cured using UV-LED systems. DM-OCI-6002 also contains functional material to ensure excellent hardness and improve its barrier performance to water transmission. The high abrasion resistance provides an effective overcoat layer with excellent adhesion on various substrates.

Product Benefits

- Formulated for ink-jet printing
- UV-LED curable
- High Abrasion Resistance
- Water barrier coating
- Excellent adhesion

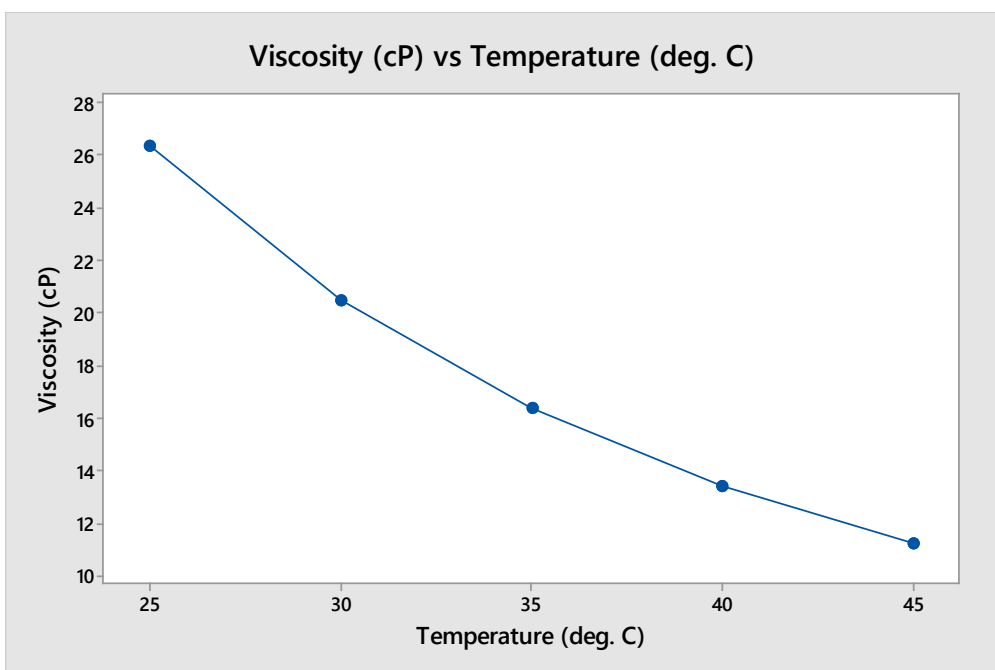
Paste Preparation

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 (500 s ⁻¹ cone & plate)	11 – 13 cP at 40-45°C
Surface Tension	30.5 dynes/cm
Substrate compatibility	Glass, ITO-Glass, plastics, FR4

Reliability Data



Ink Curing Conditions

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

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

Properties of the Cured Ink

Test	Properties
Pencil hardness scale	9H
Adhesion	5B
Transmittance	>90% at 550 nm

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:

Dycotec Materials Ltd
Unit 12, Star West
Westmead, Westlea
Swindon, Wiltshire
SN5 7SW UK
Email: Info@dycotecmaterials.com
Tel: +44 (0)1793 422598
www.dycotecmaterials.com

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.

Note: The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, Dycotec Materials specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale of use of Dycotec Material's products. Dycotec Materials specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits. The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Dycotec Material patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one of or more UK or foreign patents or patent applications.