

## Product Description

DM-OC-6031S is a transparent, screen printable paste for use with Dycotec's range of conductive transparent ink systems providing high levels of durability. It is screen printable and thermally cured.

## Product Benefits

- Formulated for screen printing
- Excellent transparency
- Protective overcoat for Dycotec's range of transparent conductive pastes
- Excellent printability
- Low temperature cure

## Paste Preparation

DM-OC-6031S is a single part paste system. Once the paste has been removed from the container for printing, this may introduce contamination. Please do not replace the paste in the container. The paste should be gently stirred before use avoiding incorporation of air bubbles. Avoid paste drying on screen, use flood-print-flood process to avoid drying.

## Properties of the Uncured Paste

Test	Properties
Viscosity after mixing (Pa.s) (Lamy, cone and plate 50s <sup>-1</sup> , 25°C)	0.3 - 0.8
Colour	Clear
Density (g/cm <sup>3</sup> )	0.85
Solids Content	17%
Thinner	DM-OC-6031-DT

## Paste Processing Conditions

Parameter	Typical Properties
Substrate	PET
Screen	325 SS, 23 µm EOM or P120/31 polyester, 21 µm EOM
Screen residence time	>1 hour
Flood speed	70 mm/s
Print speed	70 mm/s
Squeegee type	80 durometer (Red)
Curing temperature	80-100°C
Curing time	10-20 mins

The paste can be dried using either a convection oven or IR heating. Typical drying parameters used are 80°C-100°C for 10-20 mins. Drying times may be reduced to achieve the optimum production rate depending on manufacturing process set-up

## Properties of the Cured Paste

Test	Properties
Adhesion	5B
Transparency	>99%

## Clean-Up

Equipment can be cleaned using solvents such as benzyl alcohol and then isopropanol wipe dry

## Storage and Shelf-life

Store at room temperature (10-25°C) with lids tightly sealed. The paste shelf-life for an unopened container is 12 months from date of shipment. Dycotec Materials cannot assume responsibility for a paste that has not been stored in appropriate conditions or where the pastes have been contaminated following use.

## 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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