

LOCTITE ECI 9002 E&C

April 2018

PRODUCT DESCRIPTION

LOCTITE ECI 9002 E&C provides the following product characteristics:

Technology	Thermoplastic
Appearance	Black liquid
Filler Type	Carbon Black
Product Benefits	Small particle size
	 Excellent adhesion
Cure	Hot air drying
Application	Printed electronics, Conductive and dielectric inks
Key Substrates	PET substrates

LOCTITE ECI 9002 E&C screen printable carbon ink is formulated with very fine particle size distribution for use in metal mesh applications.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Brookfield Viscosity CP51, mPa·s (cP):

Speed 30 rpm	3,300
Thixotropic Index (3/30 rpm)	2.3
Density, g/ml	1.1
Solids Content, 1hour @ 150°C, %	42
Particle Size, Hegmann, µm	<20
Shelf Life @ 20°C, days	180
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE Recommended Drying Cycle

30 minutes @ 130°C

The above drying profile is a guideline recommendation. Conditions (time and temperature) may vary based on customers' experience and their application requirements, as well as customer drying equipment.

TYPICAL PROPERTIES OF CURED MATERIAL Physical Properties

Adhesion, ASTM D3359B 5B

GENERAL INFORMATION

For safe handling information on this product, consult the Safety Data Sheet, (SDS).

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

DIRECTIONS FOR USE

Surface Preparation

1. Thoroughly clean the surface prior to application of ink.

Mixing/Dilution

1. Mix thoroughly before use to ensure ink is homogenous.

Application

1. Recommended screen printing parameters are:

Screen Type Polyester
Screen mesh 200 to 300

Cleanup

 The equipment can be cleaned with esters (butylacetate, ethylacetate) or ketones (MIBK, MEK) or alcohol.

STORAGE:

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal Storage: 20 °C

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

Conversions

 $(^{\circ}C \times 1.8) + 32 = ^{\circ}F$ $kV/mm \times 25.4 = V/mil$ mm / 25.4 = inches $N \times 0.225 = lb$ $N/mm \times 5.71 = lb/in$ $psi \times 145 = N/mm^2$ $MPa = N/mm^2$ $N \cdot m \times 8.851 = lb \cdot in$ $N \cdot m \times 0.738 = lb \cdot ft$ $N \cdot mm \times 0.142 = oz \cdot in$ $m \cdot m \times 0.542 = oz \cdot in$



Disclaimer

Note:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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