

Hysol®

HYSOL® PC40-UM™

April 2008

PRODUCT DESCRIPTION

HYSOL® PC40-UM™ provides the following product characteristics:

Technology	Urethane Acrylate
Appearance	Clear liquid
Color	Gardener 1
Cure	Ultraviolet (UV) light activation followed by room temperature moisture cure
Application	Conformal coating

HYSOL® PC40-UM™ is a single component, VOC free conformal coating. This product is specifically formulated to rapidly gel and immobilise when exposed to U.V. light, and then cure when exposed to atmospheric moisture, thus ensuring optimum performance even in shadowed areas. Thin layer coatings can be gelled, almost instantly, to a depth of 7 mils. HYSOL® PC40-UM™ fluoresces intensely with black light and exhibits excellent adhesion to a variety of metal, ceramic, and glass filled epoxy surfaces fulfilling the needs of the most demanding environmentally friendly applications in today's PCB marketplace.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Typical Properties of Liquid Material

Specific Gravity @ 25°C	1.07
Nominal Viscosity @ 25°C, cps	500

TYPICAL CURING PERFORMANCE

Recommended Curing Conditions

UV activated in 30 seconds @ 300 - 600 mW/cm²

Moisture cure for shadow areas on a populated board: 2 to 3 days @ RT for secondary cure.

TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties:

Hardness, Shore D	80
Continuous Operating Range, °C	-40 to 135

Electrical Properties:

Dielectric Constant @ 25°C :	
1 MHz	2.75 / 0.012

Volume Resistivity, ohm/cm	3.5×10 ¹⁶
Surface Resistivity, ohms	3.8×10 ¹⁶

GENERAL INFORMATION

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

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.

Any tank should be pressurized with dry nitrogen.

Storage

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

Storage between 20 and 30°C out of sunlight and in original unopened containers. Refer to packaging specific quote for shelf life information. Once opened, containers should be purged with dry nitrogen.

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

(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = inches
N x 0.225 = lb
N/mm x 5.71 = lb/in
N/mm ² x 145 = psi
MPa x 145 = psi
N·m x 8.851 = lb·in
N·m x 0.738 = lb·ft
N·mm x 0.142 = oz·in
mPa·s = cP

Note

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