HYSOL® ES1901™

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PRODUCT DESCRIPTION

HYSOL® ES1901™ provides the following product characteristics:

Technology	Epoxy
Appearance (cured)	Clear
Components	Two component - requires mixing
Mix Ratio, by volume - Part A: Part B	1 : 1
Mix Ratio, by weight - Part A: Part B	100 : 105
Cure	Room temperature cure
Application	Potting and Encapsulating

HYSOL® ES1901™ is a fast-setting, thoughened, medium-viscosity, industrial grade epoxy adhesive. Once mixed, the two-component epoxy cures at room temperature with low shrinkage and forms an ultra clear bondline with excellent peel resistance. When fully cured, the epoxy is resistant to a wide range of chemicals and solvents, and acts as an excellent electrical insulator. HYSOL® ES1901™ is ideal for bonding plastic, metal, glass, wood, ceramic, rubber, and masonry materials where flexibility is needed. Designed for a variety of applications such as flex circuits, cable boots, and staking fillet bonds. This material is well suited for applications that require an ultraclear bondline.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Part A Properties

Specific Gravity @ 25ºC	1.1
Viscosity @ ºC, cps	1,900
Flash Point, ºC	>93

Part B Properties

Specific Gravity @ 25ºC	1.15
Viscosity @ ºC, cps	2,800
Flash Point, ºC	>93

Mixed Properties

Specific Gravity @ 25ºC	1.13
Viscosity @ 25ºC, cPs	2,400
Gel Time, 50 gm mass @ 25 °C, minutes	3
Tack free time, minutes	3.5 to 4

Recommended Curing Conditions

24 hours @ 25 °C (Recommended cure)

TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties:

Shore Hardness , Durometer D	55
Glass Transition Temperature, °C	10
Tensile Strength, psi	270
Tensile Elongation, %	80

Electrical Properties:

Dielectric Strength, volts/mil	400

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.

Note: Before using this product please purge approximately 30 ml. of material prior to application. Discard purged material in accordance with the Material Safety Data Sheet. A video instruction is available upon request.

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 to 30 °C. Storage below 20 °C or greater than 30 °C can adversely affect product properties.
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/mm² 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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