

HYSOL EE0182 EB6025

September 2013

PRODUCT DESCRIPTION

HYSOL EE0182 EB6025 provides the following product characteristics:

Technology	Epoxy
Appearance, Resin (Component A)	White
Appearance, Hardener (Component B)	Amber
Appearance (cured)	White
Components	Two component - requires mixing
Mixing Ratio, by volume Component A: Component B	100 : 38.5
Mixing Ratio, by weight Component A: Component B	100 : 24
Cure	Heat cure
Application	Encapsulant

HYSOL EE0182 EB6025 is a two part, white epoxy casting system having low abrasion and rapid gel features.

TYPICAL PROPERTIES OF UNCURED MATERIAL**Component A Properties EE0182**

Solids Content, %	100
Filler Content, %	56.5
Density @ 25°C, gm/cc	1.71
Viscosity, Brookfield - RVF, 25 °C, mPa·s (cP):	
Spindle 5, speed 20 rpm,	15,000
Shelf Life @ 25°C (from date of manufacture), year	1
Flash Point - See MSDS	

Component B Properties EB6025

Solids Content, %	100
Filler Content, %	0
Density @ 25°C, gm/cc	0.95
Viscosity, Brookfield - RVF, 25 °C, mPa·s (cP):	
Spindle 2, speed 20 rpm,	400
Shelf Life @ 25°C (from date of manufacture), year	1
Flash Point - See MSDS	

Mixed Properties

Viscosity @ 25 °C, mPa·s (cP):	
Spindle 4, speed 20 rpm,	3,170
Gel Time @ 85 °C, minutes	5
Pot Life @ 25°C, 200 gm mass, hours	4
Flash Point - See MSDS	

TYPICAL CURING PERFORMANCE**Recommended Cure Schedule**

2 hours @ 60°C

Alternate Cure Schedule

1 hour @ 85°C

The above cure profile is a guideline recommendation. Cure conditions (time and temperature) may vary based on customers' experience and their application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.

TYPICAL PROPERTIES OF CURED MATERIAL**Physical Properties**

Coefficient of Linear Thermal Expansion, ppm/°C:	
Below Tg	71
Above Tg	162
Glass Transition Temperature (Tg), °C	43.5
Hardness, Shore D	80
Linear Shrinkage, %	0.38
Elongation, %	31
Thermal Conductivity, W/(m·K)	0.41

Electrical Properties

Dielectric Constant / Dissipation Factor @ 25°C:	
1 kHz	1.85 / 0.026
Volume Resistivity @ 25°C, ohm-cm	3.3×10 ¹⁴
Surface Resistivity @ 25 °C, ohms	3.2×10 ¹⁵

TYPICAL PERFORMANCE OF CURED MATERIAL**Miscellaneous**

Tensile Strength	N/mm ²	9.8
	(psi)	(1,420)

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.

Storage

Liquid Storage - Liquids should be stored at 25°C or below, in closed containers. If stored below 25°C, the material **MUST** be allowed to come to room temperature, in the sealed container, to avoid moisture contamination.

Optimal Storage : 25 °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

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

Disclaimer

Note:

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