



Formerly Dexter

Technical Data Sheet

HYSOL[®] ES0600

Liquid Epoxy Encapsulant

Description

Hysol[®] ES0600 is a liquid two-component, filled epoxy system developed for vacuum impregnation applications. It is especially recommended for paper wound ignition coil applications.

Typical Uncured Properties

	ES0600		Test Method
	Part A	Part B	
Color	Tan	Amber	STP4C
Solids Content, %	100	100	STP7A
Filler Content, %	57	0	
Density @25°C (77°F), gm/cc	1.71	1.11	STP9A
Viscosity @25°C (77°F), Brookfield RVF			STP2A
Spindle 7, Speed 20, cps	115,000		
Spindle 2, Speed 20, cps		1,000	
Shelf Life @ 25°C (77°F), months	12	12	

Typical Cured Properties

All measurements taken at 25°C (77°F) unless otherwise noted.

	ES0600	Test Method
Color	Tan	STP4C
Coefficient of Linear Thermal Expansion		
in/in/°C x 10 ⁻⁵ (40° to 60°C)	60	STP65B

Cured Electrical Properties

Dielectric Strength @ 20 mil thickness, volts/mil

ES0600

1420

Test Method

STP48D

25°C**125°C****K****D****K****D**

1kHz

3.51

.0069

4.63

0.0776

10kHz

3.46

.0059

4.15

0.0589

Vol. Res.

 1.13×10^{16} 1.86×10^{13}

Surf. Res.

 2.83×10^{16} 4.75×10^{13}

K = Dielectric constant

STP53A

D = Dissipation factor

STP53A

Vol Res = Volume resistivity in ohm-cm

STP30H

Surf Res = Surface resistivity in ohms

STP30H

Handling**ES0600****Test Method**

(recommended mix ratio and typical mixed properties)

Mix Ratio, parts by weight* Part A/Part B

100/43

Mix Ratio, parts by volume* Part A/Part B

100/66

Pot Life @ 25°C (77°F) (200 gram mass)

8 hours

STP10T

Viscosity @ 25°C (77°F)

Spindle 5, Speed 20, cps

5,800

Gel Time @ 100°C (212°F), minutes

50

STP10N

- * Mix ratio of these materials is fixed by their chemistry. Any attempt to increase or decrease the cure rate by adding more or less hardener will result in degraded materials.
- If crystallized during storage, heat to 60°C (140°F) for 2-16 hours (depending on the size of the container) with occasional stirring.
- Filled resins may tend to settle during storage. Thorough mixing is required each time they are used.

Cure Schedule

(recommended for optimum properties)

Recommended Cure

2 hrs @ 93°C plus 1 hour @ 150°C

Alternate Cure

3hrs @ 120°C

Typical cured properties were determined using the recommended cure schedule. Some difference in properties may occur with the alternate or other cure schedules.

For additional information in the Americas, please contact one of the following locations:

New York

TEL: 716.372.6300

FAX: 716.372.6864

Canada

TEL: 905.814.6511

FAX: 905.814.5391

Brazil

TEL: 011.55.11.4143.7000

FAX: 011.55.11.4143.7100

For a complete listing of worldwide locations and information on related products, please visit our website www.loctite.com/electronics

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Users should review the Material Safety Data Sheet (MSDS) and product label for the material to determine possible health hazards, appropriate engineering controls and precautions to be observed in using the material. Copies of the MSDS and label are available upon request
