



HYSOL[®] EO0123

Liquid Encapsulant

Formerly Dexter

Description

Hysol[®] EO0123 is a high thermal conductivity, one component casting compound.

Typical Uncured Properties

EO0123

Color	Dark Gray
Solids content, %	100
Filler content, %	76
Density, gm/cc	2.44
Viscosity @ 50°C Brookfield RVF Spindle 7, Speed 2 cps	230,000
Spindle 7, Speed 20 cps	62,000
Estimated Shelf Life @ 25°C (77°F), months min. from date of shipment	6

Typical Cured Properties – Values are not intended for use in preparation of specifications. All measurements taken at 25°C (77°F) unless otherwise noted. Contact your Dexter Electronic Materials representative for information regarding specification values.

Cured Physical Characteristics

EO0123

Color	Dark Gray
Glass Transition (Tg) °C, minimum	118
Coefficient of linear thermal expansion in/in/°C (50-90°C) maximum (130-150°C)	29.6 x 10 ⁻⁶ 103 x 10 ⁻⁶
Specific gravity	2.44
Linear shrinkage	0.34
Flexural strength, psi	12,940
Hardness, Shore D	97
Compressive strength, psi	27,910
Tensile strength, psi	4,500
Elongation, %	0.42

EO0123

Thermal conductivity, cal x cm/sec x cm ² x °C	50 x 10 ⁻⁴
Moisture absorption (25 hr immersion), %	0.08
Guide to operating class IEEE °C	175

Cured Electrical Properties**EO0123**

	25°C		60°C		100°C	
	K	D	K	D	K	D
1 kHz	14.1	.023	14.1	.025	14.3	0.33
Vol. Res.		3.5 x 10 ¹⁵		5 x 10 ¹⁴		7 x 10 ¹³
Surf. Res.		1 x 10 ¹⁶		2 x 10 ¹⁵		1 x 10 ¹⁴

K= Dielectric constant by ASTM D 150

D = Dissipation factor by ASTM D 150

Vol. Res. = Volume Resistivity in ohm-cm by ASTM D 257

Surf. Res. = Surface Resistivity in ohms by ASTM D 257

Handling**EO0123**

Gel Time @ 125°C, minutes	4 – 7
Pot Life @ 50°C, 200 grams mass	8 hours

Cure Schedule

Use suggested cure conditions as general guidelines. Other cure conditions may yield satisfactory results. Below cure conditions are suggested for maximum performance. Curing below 125°C is not recommended for most applications.

Recommended cure	One hour @ 125°C (250°F)
Alternate cure	Thirty minutes @ 150°C (300°F)

06/2000

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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