Technical Data Sheet

HYSOL® EO0202

Electronic Formulated Liquid

Formerly Dexter

1.0 Description

EO0202 is a one component, epoxy potting/adhesive compound designed to be crack resistant when used on metal surfaces such as filter endcaps. It is stable when stored at 25ºC (77ºF) or lower.

2.0 TYPICAL UNCURED PROPERTIES

	EO0202	TEST METHOD
Color	White	Visual
Solids content, %	100	ASTM D 115
Filler content, %	49 – 53	ASTM D 2584
Density @25ºC (77ºF), gm/cc	1.60 – 1.66	ASTM D 1475
Viscosity @ 25ºC (77ºF)		ASTM D 2393
Brookfield RVF		
Spindle 6, Speed 2 cps	23 – 48,000	
Spindle 6, Speed 20	18 – 26,000	
Shelf Life @ 25ºC (77ºF), months (min. from date of shipment)	6	

May crystallize, see paragraph 4.0.
Note: The resin base of these compounds meets the requirements of ASTM D 1763, specification for epoxy resins.

3.0 TYPICAL CURED PROPERTIES – Values are not intended for use in preparation of specifications. All measurements are taken at 25ºC (77ºF) unless otherwise noted. Contact your Dexter Electronic Materials representative for information regarding specification values.

3.1 Cured Physical Characteristics

	EO0202	TEST METHOD
Color	White	Visual
Coefficient of linear thermal expansion		ASTM D 3386
in/in/ºC, (25ºC to 60ºC)	43	
(65ºC to 130ºC)	155	
Glass transition (Tg), ºC	62	ASTM D 3386
Compressive strength, psi	19,000	ASTM D 695
Density, lb/cu. in.	0.05 – 0.09	ASTM D 792
Linear shrinkage, % 130 + 170ºC cure	2.0	ASTM D 2566
110 + 125ºC cure	1.2	
Hardness Shore D	90 – 95	ASTM D 2240
Tensile strength, psi	7,800	ASTM D 638
Elongation, %	1 – 2	ASTM D 638
Specific gravity	1.60 – 1.66	ASTM D 792
Thermal conductivity, cal x cm/sec x cm^2 x ºC	12.8×10^{-4}	ASTM D 1674
Flexural strength, psi	11,000	ASTM D 790
Izod impact strength, ft.-lb./in. notch	0.32	ASTM D 256
Moisture absorption (24 hr immersion), %	0.10	ASTM D 570
Guide to operating class IEEE ºC	175	

3.2 Cured Electrical Properties

	EO0202	TEST METHOD
Dielectric strength @ 10 mil thickness, volts/mil	1,400	ASTM D 149
Arc resistance, seconds	135	ASTM D 495

	25ºC	125ºC
Vol. Res.	2×10^{16}	1×10^{11}

	25ºC K	25ºC D	125ºC K	125ºC D
100 Hz	5.2	0.004	12.1	1.617
1 kHz	5.2	0.004	8.6	0.004
100 kHz	5.0	0.010	6.5	0.013

K = Dielectric constant by ASTM D 150
D = Dissipation factor by ASTM D 150
Vol. Res. = Volume resistivity, ohm-cm by ASTM D 257

4.0 HANDLING

Mix ratio, parts by weight. CAUTION: EO0202 may exotherm violently in masses in excess of 0.5 inches thick or more than 50 grams.

Gel time @ 177ºC (350ºF), seconds 80 – 90

If crystallized during storage, heat to 60ºC (140ºC) for 2 hours (depending on size of container) with occasional stirring.

Filled resins may tend to settle during storage. Thorough mixing is required each time they are used.

4.1 Cure Schedule

Recommended Cure Endcaps: 15 minutes @ 130ºC (266ºF) plus 20 minutes @ 170ºC (338ºF).
Potting : 30 minutes @ 110ºC (230ºF) plus 30 minutes @ 125ºC (257ºF).

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

06/2000

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

New York	**Canada**	**Brazil**
TEL: 716.372.6300	TEL: 905.814.6511	TEL: 011.55.11.4143.7000
FAX: 716.372.6864	FAX: 905.814.5391	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

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