

# HYSOL<sup>®</sup> Electrical/Electronic Formulated Liquid Products

## Heat Cure Epoxies

System		Description	Typical Applications
Resin	Hardener		
RE2039	HYSOL <sup>®</sup> HD0242	An undiluted casting system for moderate elevated temperature applications. Filled resin EE4183 provides improved thermal properties, lower shrinkage and lower coefficient of expansion.	Medium Tg (120°C) material for potting coils and resistors
EE4183			
HYSOL <sup>®</sup> EE4183	HYSOL <sup>®</sup> HD3485	A filled, extremely low exotherm system for very large castings. It has excellent electrical insulation properties and performs well as an encapsulant for high voltage power supplies and bushings.	Very large castings, to 400 lbs., electrical bushings
RE2039	HYSOL <sup>®</sup> HD0243	A high heat distortion, humidity resistant casting compound which has excellent chemical resistance and electrical properties. EE4183 is the silica filled resin for improved thermal properties, lower shrinkage and lower coefficient of expansion.	High Tg (132°C) material for potting coils and resistors
EE4183			
HYSOL <sup>®</sup> EE4183	HYSOL <sup>®</sup> HD3537	A filled, anhydride cured system with an extremely high heat deflection temperature. The cured system displays excellent electrical properties through a broad range of frequencies and temperatures up to 200°C (392°F).	Potting transformers and other parts where high temperatures are expected.

**NOTE:** Before using these products, consult individual product bulletins and Material Safety Data Sheet for safety and handling information.

**NOTICE TO BUYERS:** All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee or warranty or responsibility of any kind, expressed or implied. Further, these are furnished upon the condition that users of our products must make their own test to determine suitability of each product for their particular purposes.

**Data shown are not to be used for specification purposes:** Purchase and Quality specifications must be formally approved by Dexter Electronic Materials Division's Quality Department. Statements or suggestions concerning possible use of our products are made (1) without any representation of patent immunity and (2) with reservation of all rights.

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### Heat Cure Epoxies – Handling

System		Mix Ratio by Weight	Mixed Viscosity Centipose	Pot Life 200 Gram Mass	Exotherm °C 200 Gram Mass	Cure
Resin	Hardener					
RE2039	HYSOL <sup>®</sup> HD0242	100/15	4,000	40 - 50 mins.	107°C	1 hr. at 40°C plus 2 hrs. at 150°C
EE4183		100/8	20,000	50 - 60 mins.	32°C	
HYSOL <sup>®</sup> EE4183	HYSOL <sup>®</sup> HD3485	100/7	500 @ 70°C	24 hrs. / 3 hrs. @ 70°C	0	6 hrs. @ 100°C or 16 hrs. @ 75°C
RE2039	HYSOL <sup>®</sup> HD3561	100/25	10,000	7 - 8 hrs.	N/A	2 hrs. at 80°C plus 2 hrs. at 150°C
EE4183		100/12.5	25,000	7 - 8 hrs.	N/A	
HYSOL <sup>®</sup> EE4183	HYSOL <sup>®</sup> HD3537	100/43	400 @ 70°C	1 - 2 days / 2 hrs. @ 70°C	N/A	3 hrs. @ 120°C plus 16 hrs. @ 160°C

### Heat Cure Epoxies -- Physicals/Electricals

System		Physicals						Electricals		
Resin	Hardener	Oper. Temp	Hardness Shore D	Tensile Str PSI	% Water Absorption	Specific Gravity	Shrinkage %	Dielectric Constant	Dissipation Factor	Vol. Res. Ohm-Cm
RE2039	HYSOL <sup>®</sup> HD0242	130°C	85-90	110,000	0.11	1.2	2.0	3.7 100KHz	0.031	3 x 10 <sup>16</sup>
EE4183		155°C	90-95	8,000	0.05	1.5	1.2	4.0 100KHz	0.024	1 x 10 <sup>16</sup>
HYSOL <sup>®</sup> EE4183	HYSOL <sup>®</sup> HD3485	130°C	85	6,400	0.24	1.5	0.5	4.2 100KHz	0.012	7 x 10 <sup>13</sup>
RE2039	HYSOL <sup>®</sup> HD0243	155°C	80-85	9,000	0.11	1.2	1.4	4.0 100KHz	0.033	1 x 10 <sup>17</sup>
EE4183		180°C	80-85	9,000	0.13	1.5	0.7	4.4 100KHz	0.025	2 x 10 <sup>16</sup>
HYSOL <sup>®</sup> EE4183	HYSOL <sup>®</sup> HD3537	200°C	87	10,000	0.30	1.5	1.0	3.5 100KHz	0.015	3 x 10 <sup>15</sup>

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