傑 地 有 限 公 司
JASDI CHEMICALS CO., LTD.
Website:www.jasdi.com.tw
E-mail: jasdikao@ms21.hinet.com.tw

台 北 Taipei :+886-2-26008672
台 中 Taichung :+886-4-25685848
東 莞 Dongguan :+86-769-88188707
上 海 Shanghai :+86-21-58356975

Resin: El-Cast 1-F-5 TAB VO

Technical Bulletin

Description: El-Cast 1-F-5 TAB VO is a filled, single component, high performance epoxy that is UL 94-VO and is RoHS and REACH compliant. It is one of a series of high performance, single component, semiconductor encapsulants that can be used for "chip on-board" applications. It has good thermal properties, good chemical resistance and has excellent resistance

Uses: Noise filters, transformers, coils, marine sonar devices, and all applications where heat cure is possible.

Physical Properties @ 22ºC

Color:	Black
Shore "D" Hardness ASTM D2240:	95
Viscosity Resin:	100,000 cps
Viscosity Hardener:	n/a
Density Resin:	13.89 wpg
Density Hardener:	n/a
Specific Gravity, Resin:	1.67
Specific Gravity, Hardener:	n/a
Tensile Strength:	15,000 psi
Compressive Strength:	35,000 psi
Flexural Strength:	28,000 psi
Maximum Use Temperature:	500ºF
Shelf Life:	1 Year if kept at 40ºF or below
Moisture Absorption	<0.1%

Coefficient of Thermal Expansion: 1.58 x 10^{-5} In/In/°F

Linear Shrinkage: 2.1 x 10^{-4} In/In

Temperature Range: -40°F to 500°F
Glass transition Tg: 180°C

Mixing & Cure Instructions

Pot Life 100 gram Mass, Room Temp.(72ºF) n/a
Cure Time @ 250ºF for 60 mins.

Electrical Properties

Volume Resistivity, Applied voltage: 500 VDC @ 1 min. Ele. per ASTM D257	1.2 x 10^{16}
Dielectric Constant, Test frequency: 1 MHz per ASTM D150	4.71
Dielectric Strength, Oil rate of rise(short time): 500 V/S per ASTM D149	463
Dissipation Factor, Test frequency: 1 MHZ per ASTM D150	0.024
Thermal Conductivity, BTU-in./hr,-ft^2-ºF per ASTM C177	14

IMPORTANT NOTICE: This information is presented to assist the user in determining whether our products are suitable for his intended application and user assumes all risks and liability whatsoever in connection therewith. No warranty or representation express or implied, shall apply to these products. Seller's only obligation shall be to replace quantity of this product which has proven to not substantially comply with the data presented Manufacturer's latest bulletin. Seller shall not be liable for any property loss or damage, direct or consequential, arising out of the use of or the inability to use the product. No protection from any law or patent is to be inferred and all patent rights are reserved. See Material Safety Data Sheet.