



TECHNICAL BULLETIN
Epoxy Potting Compound
SS1844-UL

Description

EPMAR SS1844-UL is a black, two component filled epoxy. This epoxy was developed for the potting of electronic modules.

Performance

	Part A	Part B
Color	Black	Tan
Specific Gravity	1.58	1.57
Viscosity at 25° C	20,000 cps	8,500 cps
Brookfield RVT (spindle #5 at 20 rpm)	11,000 cps	Mixed
Filler Content	52.5%	64.1%
Shelf Life @ 25° C	12 months	12 months
Note: Values not intended for use in specification preparation.		

Physical Characteristics

Color	Black
Filler Content	58.3
Hardness, Shore D	83 +/-3
Operating Temperature	105° C
Glass Transition (T_g)	50° C
Coefficient of Linear Thermal Expansion	55.2 / 123 Um/m-C (above / below T _g)
Dielectric Strength	420 Volts per mil
Dielectric Constant @ 23° C, 100 Hz / 1 Hz	*---- / 4.43
Dissipation Factor @ 23° C, 100 Hz / 1 Hz	>0.1 / 0.077
Volume Resistivity @ 23° C	3.3 x 10 ¹³ ohm-cm
Mix Ratio	1:1 by weight or volume
Pot Life (200 gram mass @ 25° C)	45 minutes
Gel Time	150 minutes
Mix Viscosity	11,000 cps
Cure Schedule @ 25° C	6 hours @ RT Handling Strength 7 day – Ultimate Properties 3 hours @ 60° C

*Value not obtained at 100 Hz due to equipment limits.



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Storage:

Product should be stored at 60° F -90° F for best performance. Shelf life for this product is 1 year under recommended storage conditions and if drum remains sealed.

Disclaimer:

The above information is based on preliminary laboratory test and believed to be accurate. All properties shown are typical values and are not intended to be used in the preparation of specifications. While the information presented (herein) is believed to be reliable and represent the best available data on this (or these products), no guarantee, warranty, or representation is made, intended or implied as to the correctness or sufficiency of any information or as to the suitability of any chemical compound for any particular use. It is recommended that each user conduct a sufficient investigation to establish the suitability of product application in any particular use.

Warranty:

The following warranty is made in lieu of all other warranties, either expressed or implied. This product is manufactured of selected raw materials by skilled technicians. Neither seller nor manufacturer has any knowledge or control concerning the purchaser's use of this product and no warranty is made as to the results of any use. The only obligation of either seller or manufacturer shall be to replace any quantity of this product, which is proved to be defective. Any claim of defective product must be received in writing within one (1) year from date of shipment. Neither seller nor manufacturer assumes any liability for injury, loss, or damage resulting from use of this product.

Contact us for any additional application information.

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Rev 033020