



A QUAKER CHEMICAL COMPANY

TECHNICAL BULLETIN
Epoxy Potting Compound
SS1836X-1

Description

EPMAR SS1836X-1 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	1.51	1.53
Viscosity at 25° C	26,600 cps	7,400 cps
Brookfield RVT Spindle 6 Speed 10	10,600 cps	Mixed
Filler Content	48%	54.5%
Shelf Life @ 25° C (Minimum from date of Shipment)	12 months	12 months
Note: Values not intended for use in specification preparation.		

Physical Characteristics

Color	Black
Filler Content	51.2%
Hardness, Shore D	76 ± 5
Operating Temperature	105° C
Water Absorption	1.0 (% in 24 hours)
Thermal Conductivity	11 x 10 ⁻⁴ cal x cm/(sec x cm ² x °C)
Coefficient of Linear Thermal Expansion	128 x 10 ⁻⁶ in/in/°C
Glass Transition (T_g)	50° C
Dielectric Strength	420 Volts per mil
Dielectric Constant @ 25° C, 100 Hz	4.4
Volume Resistivity @ 23° C	1.1 x 10 ¹⁴
Dissipation Factor @ 25° C, 100 Hz	.052
Mix Ratio	1:1 by weight or volume
Pot Life (200 gram mass @ 25° C)	45 minutes
Gel Time	150 minutes
Mix Viscosity	10,600 cps
Cure Schedule @ 25° C	6 hours @ RT Handling Strength 7 day – Ultimate Properties 3 hours @ 60° C



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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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