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TECHNICAL BULLETIN

Epoxy & Polyurethane Manufacturing and Research

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EPMAR® SS1803

Low Viscosity Black Epoxy System

Description

EPMAR® SS1803 is a black, low viscosity, two component electronic grade potting compound. Excellent physical and electrical characteristics as well as easy handling make this resin/hardener combination ideal for the encapsulation of electronic modules. The components are: Resin-SA1803, Hardener-SB1803.

Performance

	Part A	Part B	Mixed
Color	Black	Amber	Black
Specific Gravity	1.16	1.01	1.12
Viscosity at 25°C, cps	4,000	225	1,900
Note: Values not intended for use in specification preparation			

Physical Characteristics

Hardness, Shore D	85
Heat Deflection Temperature	72°C
Tensile Strength	8500 psi
Flexural Strength	16,200 psi
Elongation at Break	4.4%
Electrical Dielectric Strength @ 25°C., v/mil	542
ARC Resistance (SS Electrode)	103 seconds
Volume Resistivity @ 23°C.	3.1 ohm cm (1×10^{15})
Dielectric Constant @23°C., 100 Hz	4.8
Dissipation Factor	5.3×10^{-15}
Mix Ratio	100:42 parts by weight 2.07:1 parts by volume
Pot Life	30-40 minutes @ 25°C.
Cure Schedule	3 hours @ 60°C. 24 hours @ room temperature

Contact EPMAR for any additional application information.

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.

Service is part of our formula

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