



Epoxy &
Polyurethane
Manufacturing and
Research

TECHNICAL BULLETIN

EPMAR® SA1804/SB1803 Black Filled Epoxy System

Description

EPMAR® SA1804/SB1803 is a black filled, two component, room temperature curing epoxy potting compound. This epoxy was specifically developed for electronic module potting applications. Excellent electrical and physical properties combined with easy handling, self deairation and a high gloss surface appearance.

Typical Uncured Properties

	SA1804	SB1803	Mixed
Color	Black	Amber	Black
Specific Gravity	1.36	1.01	1.28
Viscosity at 25°C (cps)	5,600	225	1,900
Filler Content	25%	0	19%

Note: Values not intended for use in specification preparation

Physical Characteristics

Hardness, Shore D	80
Shrinkage, Linear	0.38%
Water Absorption, 24 hours	.55%
Tg, °C, Perkin Elmer DSC 7	61.4
Electrical Volume Resistivity (ohm-cm)	4.6×10^{14}
Electrical Dielectric Constant (100 kHz, 25°C.)	4.3
Electrical Dissipation Factor (100 kHz, 25°C.)	0.041
Mix Ratio	100/30 parts by weight 2.59/1 parts by volume
Pot Life (100 gram mass @ 25°C.)	60 minutes
SHYODU GEL (100 gram mass)	@ 25°C - 85 minutes @ 60°C - 20 minutes
Cure Schedule	24 hours @ 25°C 5-7 day optimum properties 3 hours @ 60°C

Application Methods

Mixing –

SA1804/SB1803 is suitable for use in automatic mixing and dispensing equipment.



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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

Epmar Corporation

13210 Barton Circle, Santa Fe Springs, CA 90605-3254

Ph: 562.946.8781 / Fax: 562.944.9958

E-Mail: epmar@quakerchem.com Web Site: www.epmar.com