



Epoxy &
Polyurethane
Manufacturing and
Research

TECHNICAL BULLETIN
EPMAR® SS1920

Description

EPMAR® SS1920 is a white, two component, heat cure epoxy developed for electronic application. SS1920 was developed for the potting and encapsulation of electronic components and circuitry. It is a flame retarded compound containing no halogens or antimony oxide.

Performance

Color	White ASTM D-2240
Hardness Shore D	90 ASTM D-638
Tensile Strength	1,620 psi
Glass Transition (Tg), °C, DSC:	114
Coefficient of Thermal Expansion, in/in/°C (TMA):	4.053 X 10 ⁻⁵
Flexural Strength	10,350 psi ASTM D-790
Flame Test, 1/8", 94V-0	UL Approved 94V0
Thermal Conductivity (ASTM D-2214)	9.8 x 10 ⁻⁴ cal x cm/(sec x cm ³ x °C)
Surface Resistivity (ohms)	3.5 X 10 ¹⁶ ASTM D-257
Volume Resistivity (ohm-cm)	5.9 x 10 ¹⁴ ASTM D-257
Dielectric Strength (volts/mil)	560 ASTM D-149
Dielectric Constant (25°C. 1 kHz)	4.60 ASTM D-150
Dissipation Factor (25°C. 1 kHz)	0.011 ASTM D-150
Mix Ratio:	
Parts by Weight	100:35
Parts by Volume	100:52
Working Life (hours)	Greater than 8
*Recommended Cure Time:	
3 Hours	1½ hours @ 70°C ; 1½ hours @ 115°C
6 Hours	2 hours @ 70°C ; 5 hours @ 110°C

*Values not intended for use in specification preparation.

Physical Characteristics

	Part "A"	Part "B"	Mixed
Color	White	Amber	White
Specific Gravity	1.75	1.19	1.61
VISCOSITY @ 25°C, cps.:	39,000	60	1,090
@ 55°C, cps.:	3,980	0	270
@ 60°C, cps.:	3,790	0	240
@ 70°C, cps.:	3,150	0	130
Filler Content	68%	0	40%



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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