

U.S. Corporate Headquarters 400 Valley Rd. Warrington, PA 18976

1(800) 523-2575 / (215) 343-6484 1(800)343-3291 fax info@polysciences.com Polysciences Europe GmbH

Handelsstrasse 3 D-69214 Eppelheim, Germany +(49) 6221-765767 +(49) 6221-764620 fax info@polysciences.de Polysciences Asia-Pacific, Inc. 2F-1, 207 Tunhwa N. Rd. Taipei, Taiwan 10595 (886) 2 8712 0600 (886) 2 8712 2677 fax info@polysciences.tw

TECHNICAL DATA SHEET 708

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Edge**CONTROL**™ (Dam Encapsulant) SD1010

DESCRIPTION

Polysciences, Inc. EdgeCONTROLTM is a low modulus retention dam specifically formulated to offer low cure stress and low warpage for liquid encapsulation of BGA and MCM packages. Polysciences' EdgeCONTROLTM has good adhesion to various rigid and flexible organic and ceramic substrates. High viscosity and high thixotropy allow it to maintain its profile while wet and during curing without slumping. EdgeCONTROLTM is designed to be used with NoSWEEPTM EW8000 Series Encapsulant. Both can be cured simultaneously.

PRODUCT BENEFITS

EdgeCONTROL™ offers the following distinct advantages over anhydride-based epoxy systems:

- Outstanding self adhesion when used with NoSWEEP™
- Excellent height to width ratio
- Ability to co-cure with NoSWEEP[™] EW8000 Series

PROCESS PARAMETERS

Recommended Cure Cycle: Co-cure with NoSWEEP™ EW8000 Series

Alternative Cure

30 min. @ 100° C + 120 min. @ 150° C **or** 60 min. @ 100° C + 60 min. @ 165° C

UNCURED (WET) PROPERTIES

Color Black
Filler Content <7%
Filler avg. size <1 micron

Viscosity @ 25°C RVDV-II+ Spindle 7 5500 kcps @ 0.5rpm

Thixotropic Index 7.0
Specific Gravity 1.13
Pot Life @ 25°C >16 hours
Specific Gravity 1.2

CURED PROPERTIES

Glass Transition Temperature (Tg) by DMA 160°C

Coefficient of Thermal Expansion (CTE)

Alpha 1 = 50 ppm/°C Alpha 2 = 160 ppm/°C

Flexural Modulus (Three Point Blend)

2.0 GPa @ 25°C

Modulus (Compression)

500 M Pa @ 25°C

Extractable Ionic Content

CI<10 Na<10 K<5 F<5

STORAGE AND HANDLING

Shipping Keep product at room temperature **Storage** Store at room temperature, should be

observed

Safety Refer to MSDS for handling practices

North America (United States)

1 (800) 523-2575 / (215) 343-6484 1 (800) 343-3291 / (215) 343-0214 fax

Europe (Germany)

(49) 6221-765767 / (49) 6221-764620 fax

Asia-Pacific (Taiwan)

(886) 2 8712 0600 / (886) 2 8712 2677 fax

Online anytime at: polysciences.com

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