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## TECHNICAL DATA SHEET 708

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# EdgeCONTROL™ (Dam Encapsulant) SD1010

### DESCRIPTION

Polysciences, Inc. **EdgeCONTROL™** 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' **EdgeCONTROL™** 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. **EdgeCONTROL™** is designed to be used with **NoSWEEP™** 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

Cl<10  
Na<10  
K<5  
F<5

### STORAGE AND HANDLING

<b>Shipping</b>	Keep product at room temperature
<b>Storage</b>	Store at room temperature, should be observed
<b>Safety</b>	Refer to MSDS for handling practices

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