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# EdgeCONTROL™ (Dam Encapsulant) SD54G0

## TECHNICAL DATA SHEET 681

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### 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 **LoSTRESS™** Liquid Encapsulant. Both can be cured simultaneously.

### PRODUCT BENEFITS

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

- Enhanced stress management through the ability to achieve a low modulus for a given CTE
- Efficient material utilization resulting from extended pot life at room temperature
- Outstanding self adhesion when used with **LoSTRESS™** Liquid Encapsulant so there is no separation between dam and fill
- Ability to cure concurrently with **LoSTRESS™** encapsulant

### UNCURED (WET) PROPERTIES

Color	Clear
Specific Gravity	1.05g/ml
Viscosity @ 25°C RVDV-II+, Spindle 14TBD	150 kcps
Pot Life @ 25°C	> 24 hours

### PROCESS PARAMETERS

Thawing	For best dispensing, thaw for 1 hour at room temperature
Cure Cycle	Cure concurrently with fill encapsulant
Alternative Cure Cycle	If cured prior to fill, 1.5 hours @ 90°C plus 1.0 hours @ 150°C plus 1.0 hours @ 160°C

### CURED PROPERTIES

Tg	< 0°C
CTE	<100ppm <200ppm
Modulus	1 MPa @ 25°C

### STORAGE AND HANDLING

Storage	12 months @ <-40°C
Safety	Normal safety precautions for epoxy resins should be observed. Refer to MSDS for details.

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