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details.

12 months @ <-40°C

STORAGE AND HANDLING

Storage

Safety

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 681

Normal safety precautions for epoxy resins

should be observed. Refer to MSDS for

Edge**Control™** (Dam Encapsulant) SD54G0

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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 LoSTRESSTM 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

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