

**Loctite® 3565 High performance epoxy, high Tg and low CTE High Tg Underfill**

Category : Polymer , Adhesive , Thermoset

**Material Notes:**

COB/DCA Encapsulants are essential to the reliability of flip chip assemblies because they minimize the thermal mismatch between the flip chip and substrate. Loctite® Underfills and Encapsulants improve assembly operations by providing superior reliability and faster throughput. Improved reliability is achieved through products that have a high Tg, low CTE, high throughput and excellent adhesion. Faster throughput and higher yields are achieved through faster flow characteristics and increased cure speeds. Loctite® 3565 High performance epoxy, high Tg and low CTE High Tg Underfill A high performance underfill for flip chip devices. Specifically formatted for high reliability, hybrid and MCM applications. Designed for gaps down to 1 mil.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Loctite-3565-High-performance-epoxy-high-Tg-and-low-CTEHigh-Tg-Underfill.php](http://www.lookpolymers.com/polymer_Loctite-3565-High-performance-epoxy-high-Tg-and-low-CTEHigh-Tg-Underfill.php)

Physical Properties	Metric	English	Comments
Density	1.74 g/cc	0.0629 lb/in <sup>3</sup>	
Viscosity	45000 cP	45000 cP	Haake cone and plate rheometer @ 5/sec (35mm/2° cone)

Mechanical Properties	Metric	English	Comments
Tensile Modulus	3.45 GPa	500 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 µm/m-°C	13.9 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Glass Transition Temp, Tg	155 °C	311 °F	

Processing Properties	Metric	English	Comments
Cure Time	30.0 min	0.500 hour	Full Cure
	@Temperature 150 °C	@Temperature 302 °F	
Shelf Life	3.00 Month	3.00 Month	
	@Temperature -40.0 °C	@Temperature -40.0 °F	

**Contact Songhan Plastic Technology Co.,Ltd.**

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China