



## Product Information Sheet

**MATERIAL ID:****EPO-TEK<sup>®</sup> OG653****Date:** Sep 2013**Rev:** VI**Material Description:** UV curable adhesive designed for glob top encapsulation**Number of Components:** Single**Mix Ratio by Weight:** N/A**Recommended Cure:** 100mW/cm<sup>2</sup> @ 365 nm for > 1 second, depending on thickness**Specific Gravity:** 1.1**Pot Life:** N/A**Shelf Life:** One year at room temperature

*NOTE:* Container(s) should be kept closed when not in use. Filled systems should be stirred thoroughly before mixing and prior to use.

**MATERIAL CHARACTERISTICS:** To be used as a guide only, not as a specification. Data below is not guaranteed. Different batches, conditions and applications yield differing results; Cure condition: varies as required

\* denotes test on lot acceptance basis

**PHYSICAL PROPERTIES:**

* <b>Color (before cure):</b>	Green
* <b>Consistency</b>	Liquid
* <b>Viscosity (23°C): @ 100 rpm</b>	650 - 850 cPs
<b>Thixotropic Index:</b>	N/A
* <b>Glass Transition Temp:</b>	≥ 40 °C (Post-Cure Dynamic Scan: 20-200°C; Ramp -10-200°C @ 20°C/Min)
<b>Coefficient of Thermal Expansion (CTE):</b>	
<b>Below Tg:</b>	75 x 10 <sup>-9</sup> in/in°C
<b>Above Tg:</b>	162 x 10 <sup>-9</sup> in/in°C
<b>Shore D Hardness:</b>	76
<b>Lap Shear @ 23°C:</b>	1,336 psi
<b>Die Shear @ 23°C:</b>	≥ 3 Kg
<b>Degradation Temp:</b>	310 °C
<b>Weight Loss:</b>	
<b>@ 200°C</b>	1.96 %
<b>@ 250°C</b>	3.44 %
<b>Operating Temp:</b>	
<b>Continuous:</b>	- 55°C to 150°C
<b>Intermittent:</b>	- 55°C to 250°C
<b>Storage Modulus:</b>	346,030 psi
<b>Particle Size:</b>	N/A

**OPTICAL PROPERTIES @ 23°C:**

<b>Spectral Transmission:</b>	≥ 97% @ 440-2220 nm
	83% @ 380 nm
	33% @ 320 nm
<b>Refractive Index (uncured):</b>	1.4874 @ 589 nm
<b>Refractive Index (cured):</b>	1.5106 @ 589 nm

**This information is based on data and tests believed to be accurate. Epoxy Technology, Inc. makes no warranties (expressed or implied) as to its accuracy and assumes no liability in connection with any use of this product.**

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