

Product Information Sheet

MATERIAL ID:

EPO-TEK® OG603

Date: 08/2007

Per:

Rev: II

Material Description:

A single component, low viscosity, UV curable adhesive designed for curing in seconds. It is an all-purpose, general adhesive for optical applications including fiber optic components, DVD, medical, and PCB level electro-optics. It can also be used for sealing and coating applications. It meets the requirements of USP Class VI biocompatibility standards for medical implants.

Number of Components:

Single

Mix Ratio by weight:

N/A

Cure Schedule (minimum)*

100mW/cm² for 5 seconds @ 320-500 nm (depending on thickness)

Specific Gravity:

1.08 --- Part A: Part B:

Pot Life:

N/A

Shelf Life:

One year at room temperature

NOTE: Container(s) should be kept closed in a dark location when not in use.

*Please see Applications Note(s) available on our website.

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.*

* denotes test on lot acceptance basis; Cure condition: varies as required

PHYSICAL PROPERTIES:

*Color (before cure):	Clear/Colorless	Die Shear @ 23°C:	≥ 3 Kg / 1,020 psi
*Consistency:	Pourable liquid	Degradation Temp:	385 °C
*Viscosity (23°C):		Weight Loss:	
@ 100 rpm	150 - 250 cPs	@ 200°C:	0.79 %
Thixotropic Index:	N/A	@ 250°C:	1.20 %
*Glass Transition	≥ 70 °C (Post-Cure)	@ 300°C:	1.90 %
Dynamic Scan 20—200°C; Ramp -10—200°C @ 20°C/Min)		Operating Temp:	
Coefficient of Thermal Expansion (CTE):		Continuous:	- 55°C to + 200°C
Below Tg:	69 x 10 ⁻⁶ in/in°C	Intermittent:	- 55°C to + 300°C
Above Tg:	170 x 10 ⁻⁶ in/in°C	Storage Modulus @ 23°C:	250,734 psi
Shore D Hardness:	84	*Particle Size:	N/A

OPTICAL PROPERTIES @ 23°C:

Spectral Transmission:	>98 % @ 420-1600 nm	Refractive Index (uncured):	1.4736 @ 589 nm
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