

EPO-TEK® OG133-8

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A single component, UV curable, thixotropic flexible epoxy adhesive/encapsulant designed for semiconductor and opto-electronic packaging. Glob top over IC and wire bonds, and low stress bonding of fiber optic components, are common applications. It is a replacement for EPO-TEK® OG133-5, and a non-flow version of EPO-TEK® OG133-7.

Formerly 90-36-4

General Information		
Features	Good Flexibility	
	Thixotropic	
	UV Curable	
Uses	Adhesives	
	Bonding	
	Electrical/Electronic Applications	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Paste	
Processing Method	Encapsulating	
Physical	Nominal Value	Unit
Particle Size	< 10.0	µm
Degradation Temperature	353	°C
Operating Temperature		
Continuous	-55 to 150	°C
Intermittent	-55 to 250	°C
Storage Modulus	< 6.89	MPa
Thixotropic Index	3.10	
Weight Loss on Heating		
200°C	2.4	%
250°C	3.6	%
300°C	5.7	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	< 10.0	°C
CLTE - Flow		
-- ²	4.3E-5	cm/cm/°C

-- ³	2.2E-4	cm/cm/°C
Optical	Nominal Value	Unit
Refractive Index		
-- ⁴	1.504	
-- ⁵	1.524	
Transmittance		
640 nm	> 90.0	%
900 nm	> 95.0	%
Thermoset	Nominal Value	Unit
Shelf Life (23°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color	White	
Density	1.13	g/cm ³
Viscosity ⁶ (23°C)	1.0 to 1.5	Pa·s
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	65	
NOTE		
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min	
2.	Below Tg	
3.	Above Tg	
4.	589 nm (uncured)	
5.	589 nm (cured)	
6.	100 rpm	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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