

EPO-TEK® OG116-31

Epoxy; Epoxide
Epoxy Technology Inc.

Message:
EPO-TEK® OG116-31 is a single component, UV curable epoxy adhesive and encapsulant, designed for PCB and circuit assembly applications found in semiconductor, computer, medical, and scientific/OEM industries.

General Information		
Features	Biocompatible	
	Low to No Outgassing	
	UV Curable	
Uses	Adhesives	
	Electrical/Electronic Applications	
	LCD Applications	
	Medical/Healthcare Applications	
	Printed Circuit Boards	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
	USP Class VI	
RoHS Compliance	RoHS Compliant	
Forms	Liquid	
Processing Method	Encapsulating	
Physical	Nominal Value	Unit
Particle Size	< 20.0	µm
Degradation Temperature	409	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus	1.82	GPa
Thixotropic Index	1.30	
Weight Loss on Heating		
200°C	0.31	%
250°C	0.68	%
300°C	1.2	%
Thermal	Nominal Value	Unit

Glass Transition Temperature ¹	> 115	°C
CLTE - Flow		
-- ²	4.1E-5	cm/cm/°C
-- ³	1.7E-4	cm/cm/°C
Optical	Nominal Value	Unit
Refractive Index		
-- ⁴	1.567	
-- ⁵	1.584	
Transmittance		
500 nm	> 92.0	%
660 to 1640 nm	> 96.0	%
Thermoset	Nominal Value	Unit
Shelf Life (23°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color	White	
Density	1.20	g/cm ³
Viscosity ⁶ (23°C)	20 to 30	Pa·s
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	83	
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.	10 rpm	

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