

EPO-TEK® OG198-54

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

Single component, low viscosity, high Tg, UV curable epoxy. Active alignment of optics, securing fibers into V-grooves and fiber pigtails are a few of its common applications. It can also be used for medical, hybrid and semiconductor device assembly. It is a "dual" cure chemistry, performance will be enhanced by a thermal post-cure. Replacement version of EPO-TEK® OG198-50.

General Information		
Features	UV curing	
	Low viscosity	
Uses	Electrical/Electronic Applications	
	Medical/nursing supplies	
	Adhesive	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS compliance	
Forms	Liquid	
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	131	°C
CLTE - Flow		
-- ²	7.4E-5	cm/cm/°C
-- ³	1.5E-4	cm/cm/°C
Optical	Nominal Value	Unit
Refractive Index		
-- ⁴	1.505	
-- ⁵	1.526	
Transmittance (460 to 1680 nm)	> 97.0	%
Thermoset	Nominal Value	Unit
Shelf Life ⁶	52	wk
Additional Information	Nominal Value	Unit
Degradation Temperature	369	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 - 200	°C
Intermittent	-55 - 300	°C
Storage Modulus	3.10	GPa

Weight Loss on Heating		
200°C	0.24	%
250°C	0.62	%
300°C	1.8	%
Uncured Properties	Nominal Value	Unit
Color	Clear/Transparent	
Density	1.12	g/cm ³
Viscosity ⁷ (23°C)	0.20 - 0.45	Pa · s
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	86	
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.	Refrigerated	
7.	100 rpm	

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