

EPO-TEK® OG198-55

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

Single component, thixotropic, 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.

General Information		
Features	Thixotropic	
	UV Curable	
Uses	Adhesives	
	Electrical/Electronic Applications	
	Medical/Healthcare Applications	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Paste	
Physical	Nominal Value	Unit
Particle Size	< 20.0	µm
Degradation Temperature	354	°C
Die Shear Strength - >20 kg (23°C)	> 46.9	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus	3.38	GPa
Thixotropic Index	6.00	
Weight Loss on Heating		
200°C	0.23	%
250°C	0.73	%
300°C	2.1	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 120	°C
CLTE - Flow		
-- ²	7.2E-5	cm/cm/°C
-- ³	1.2E-4	cm/cm/°C
Optical	Nominal Value	Unit

Refractive Index		
-- ⁴	1.502	
-- ⁵	1.520	
Transmittance (560 to 1680 nm)	> 97.0	%
Thermoset	Nominal Value	Unit
Shelf Life ⁶	52	wk
Uncured Properties	Nominal Value	Unit
Color	White	
Density	1.15	g/cm ³
Viscosity ⁷ (23°C)	1.2 to 2.0	Pa·s
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	85	
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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