

# EPO-TEK® OG178

Epoxy; Epoxide

Epoxy Technology Inc.

## Message:

A single component, UV/visible shifted light curable epoxy, designed for adhesive, sealing, coating and encapsulating applications found in semiconductor, electro-optics, fiber optics, medical, and scientific/OEM industries. It is a low viscosity, all-purpose adhesive.

General Information		
Features	Low Viscosity	
	UV Curable	
Uses	Adhesives	
	Coating Applications	
	Electrical/Electronic Applications	
	Medical/Healthcare Applications	
	Seals	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Liquid	
Processing Method	Encapsulating	
Thermal	Nominal Value	Unit
Glass Transition Temperature <sup>1</sup>	> 50.0	°C
CLTE - Flow		
-- <sup>2</sup>	6.8E-5	cm/cm/°C
-- <sup>3</sup>	1.9E-4	cm/cm/°C
Optical	Nominal Value	Unit
Refractive Index		
-- <sup>4</sup>	1.525	
-- <sup>5</sup>	1.545	
Transmittance		
380 to 520 nm	> 95.0	%
541 to 1660 nm	> 99.0	%
Thermoset	Nominal Value	Unit
Shelf Life <sup>6</sup>	52	wk
Additional Information	Nominal Value	Unit
Degradation Temperature	296	°C

Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 125	°C
Intermittent	-55 to 225	°C
Storage Modulus	1.52	GPa
Weight Loss on Heating		
200°C	2.5	%
250°C	3.2	%
Uncured Properties	Nominal Value	Unit
Color	Orange	
Density	1.15	g/cm <sup>3</sup>
Viscosity <sup>7</sup> (23°C)	0.30 to 0.60	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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