

EPO-TEK® 310M

Epoxy; Epoxide
Epoxy Technology Inc.

Message:
EPO-TEK® 310M is a two component, flexible, optically clear epoxy adhesive designed for optical, semiconductor, and medical applications.

General Information		
Features	Bondability	
	Good Flexibility	
	Low Viscosity	
	Resilient	
Uses	Adhesives	
	Electrical/Electronic Applications	
	Medical/Healthcare Applications	
	Optical Applications	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Liquid	
Processing Method	Encapsulating	
	Potting	
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 30.0	°C
CLTE - Flow		
-- ²	7.8E-5	cm/cm/°C
-- ³	2.2E-4	cm/cm/°C
Optical	Nominal Value	Unit
Refractive Index ⁴	1.497	
Transmittance		
400 to 1300 nm	> 97.0	%
1400 to 2200 nm	> 90.0	%
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 10	
Part B	Mix Ratio by Weight: 5.5	

Shelf Life (23°C)	52	wk
Additional Information	Nominal Value	Unit
Degradation Temperature	397	°C
Die Shear Strength - >2 kg (23°C)	4.69	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus	4.16	MPa
Weight Loss on Heating		
200°C	0.090	%
250°C	0.28	%
300°C	0.64	%
Uncured Properties	Nominal Value	Unit
Color		
-- 5	Clear/Transparent	
-- 6	Clear/Transparent	
Density		
Part B	1.08	g/cm ³
Part A	1.11	g/cm ³
Viscosity ⁷ (23°C)	0.45 to 0.85	Pa · s
Curing Time (65°C)	2.0	hr
Pot Life	150	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	69	
Lap Shear Strength (23°C)	2.11	MPa
Relative Permittivity (1 kHz)	8.23	
Volume Resistivity (23°C)	> 1.8E+10	ohms · cm
Dissipation Factor (1 kHz)	0.12	
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	
5.	Part B	
6.	Part A	
7.	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

