

EPO-TEK® 310M-2

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A two component, optically clear, flexible epoxy adhesive designed for optical applications within semiconductor, fiber optic and medical industries. An alternative to EPO-TEK® 310M

General Information		
Features	Good Flexibility	
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	
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	< 30.0	°C
CLTE - Flow		
-- ²	6.7E-5	cm/cm/°C
-- ³	2.0E-4	cm/cm/°C
Optical	Nominal Value	Unit
Refractive Index ⁴	1.495	
Transmittance (380 to 1660 nm)	> 98.0	%
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 10	
Part B	Mix Ratio by Weight: 2.2	
Shelf Life (23°C)	52	wk
Additional Information	Nominal Value	Unit
Degradation Temperature	331	°C
Die Shear Strength - 5 kg (23°C)	11.7	MPa
Operating Temperature		
Continuous	-55 to 150	°C
Intermittent	-55 to 250	°C
Storage Modulus	13.3	MPa

Weight Loss on Heating		
200°C	0.40	%
250°C	0.74	%
300°C	2.2	%
Uncured Properties	Nominal Value	Unit
Color		
-- ⁵	Clear/Transparent	
-- ⁶	Clear/Transparent	
Density		
Part B	1.01	g/cm ³
Part A	1.11	g/cm ³
Viscosity ⁷ (23°C)	0.25 to 0.33	Pa·s
Curing Time (65°C)	2.0	hr
Pot Life	90	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	65	
Lap Shear Strength (23°C)	4.67	MPa
Relative Permittivity (1 kHz)	5.23	
Volume Resistivity (23°C)	> 1.5E+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	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT