

EPO-TEK® 310T-M

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A two component, flexible epoxy designed for low stress applications in semiconductor, hybrid, medical, acoustical and optical industries. Replacement for EPO-TEK® 310T.

General Information		
Features	Good Flexibility	
Uses	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	Paste	
Physical	Nominal Value	Unit
Particle Size	< 20.0	µm
Degradation Temperature	401	°C
Die Shear Strength - >3 kg (23°C)	7.03	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus (23°C)	8.43	MPa
Thixotropic Index	2.10	
Weight Loss on Heating		
200°C	0.050	%
250°C	0.18	%
300°C	0.63	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	< 30.0	°C
CLTE - Flow		
-- ²	7.4E-5	cm/cm/°C
-- ³	2.4E-4	cm/cm/°C
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 10	

Part B	Mix Ratio by Weight: 6.0	
Shelf Life (23°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color		
-- 4	Clear/Transparent	
-- 5	Tan	
Density		
Part B	1.08	g/cm ³
Part A	1.12	g/cm ³
Viscosity ⁶ (23°C)	1.8 to 3.3	Pa·s
Curing Time (65°C)	2.0	hr
Pot Life	35	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	75	
Lap Shear Strength (23°C)	3.45	MPa
Relative Permittivity (1 kHz)	5.10	
Volume Resistivity (23°C)	> 2.5E+10	ohms·cm
Dissipation Factor (1 kHz)	0.091	
NOTE		
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min	
2.	Below Tg	
3.	Above Tg	
4.	Part B	
5.	Part A	
6.	100 rpm	

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