

EPO-TEK® 310M Black

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A two component, flexible, optically opaque epoxy adhesive designed for optical, semiconductor and medical applications. Replacement for EPO-TEK® 310 Black.

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	< 15.0	°C
CLTE - Flow		
-- ²	7.8E-5	cm/cm/°C
-- ³	2.6E-4	cm/cm/°C
Optical	Nominal Value	Unit
Transmittance		
400 to 1000 nm	< 7.0	%
1000 to 1550 nm	< 15.0	%
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
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus	5.01	MPa

Weight Loss on Heating		
200°C	0.090	%
250°C	0.28	%
300°C	0.64	%
Uncured Properties	Nominal Value	Unit
Color		
-- 4	Black	
-- 5	Clear/Transparent	
Density		
Part B	1.08	g/cm ³
Part A	1.11	g/cm ³
Viscosity ⁶ (23°C)	0.45 to 0.85	Pa·s
Curing Time (65°C)	2.0	hr
Pot Life	120	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	69	
Lap Shear Strength (23°C)	2.44	MPa
Relative Permittivity (1 kHz)	6.62	
Volume Resistivity (23°C)	> 1.0E+10	ohms·cm
Dissipation Factor (1 kHz)	1.1	
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 A	
5.	Part B	
6.	50 rpm	

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