

EPO-TEK® 310M-1

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A USP Class VI approved replacement for EPO-TEK® 310. It is a two component, optically clear epoxy adhesive designed for optical, semiconductor and medical applications.

Formerly 78-105-5

General Information		
Features	Biocompatible	
Uses	Adhesives	
	Electrical/Electronic Applications	
	Medical/Healthcare Applications	
	Optical Applications	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
	USP Class VI	
RoHS Compliance	RoHS Compliant	
Forms	Liquid	
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	28.0	°C
CLTE - Flow		
-- ²	6.0E-5	cm/cm/°C
-- ³	2.3E-4	cm/cm/°C
Optical	Nominal Value	Unit
Refractive Index ⁴	1.513	
Transmittance (360 to 1660 nm)	> 98.0	%
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 10	
Part B	Mix Ratio by Weight: 5.3	
Shelf Life (23°C)	52	wk
Additional Information	Nominal Value	Unit
Degradation Temperature	300	°C
Operating Temperature		
Continuous	-55 to 150	°C
Intermittent	-55 to 250	°C
Storage Modulus (23°C)	32.4	MPa

Weight Loss on Heating		
200°C	6.6	%
250°C	7.9	%
Uncured Properties	Nominal Value	Unit
Color		
-- 5	Clear/Transparent	
-- 6	Clear/Transparent	
Density		
Part B	1.05	g/cm ³
Part A	1.14	g/cm ³
Viscosity ⁷ (23°C)	0.32	Pa·s
Curing Time (65°C)	2.0	hr
Pot Life	120	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	62	
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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