

EPO-TEK® 323LP

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® 323LP is a two component, high temperature epoxy designed for semiconductor, hybrid, fiber optic, and medical applications. It is a longer pot life alternative of EPO-TEK® 353ND and is also available in a single component, frozen syringe.

General Information		
Features	High Heat Resistance	
Uses	Adhesives	
	Bonding	
	Electrical/Electronic Applications	
	Impregnation Applications	
	Medical/Healthcare Applications	
	Seals	
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	> 100	°C
CLTE - Flow		
-- ²	3.1E-5	cm/cm/°C
-- ³	1.3E-4	cm/cm/°C
Optical	Nominal Value	Unit
Refractive Index ⁴	1.570	
Transmittance		
640 to 800 nm	> 90.0	%
820 to 1620 nm	> 94.0	%
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 10	
Part B	Mix Ratio by Weight: 1.0	
Shelf Life (23°C)	52	wk
Additional Information	Nominal Value	Unit
Degradation Temperature	413	°C
Die Shear Strength - >20 kg (23°C)	46.9	MPa

Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus	2.67	GPa
Weight Loss on Heating		
200°C	0.31	%
250°C	0.46	%
300°C	0.85	%
Uncured Properties	Nominal Value	Unit
Color		
-- 5	Clear/Transparent	
-- 6	Yellow	
Density		
Part B	1.09	g/cm ³
Part A	1.20	g/cm ³
Viscosity ⁷ (23°C)	3.5 to 5.0	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	1400	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	88	
Lap Shear Strength (23°C)	> 13.8	MPa
Relative Permittivity (1 kHz)	2.62	
Volume Resistivity (23°C)	> 3.0E+12	ohms·cm
Dissipation Factor (1 kHz)	3.2E-3	
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 A	
6.	Part B	
7.	50 rpm	

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