EPO-TEK® 314

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A two component, high temperature grade, thermally and electrically insulating epoxy, designed for adhesive and sealing applications found in semiconductor, electro-optics, fiber optics, medical, and scientific/OEM industries. It is a low viscosity, optical grade epoxy with low index of refraction (Nd).

General Information		
Features	Electrically Insulating	
	High Heat Resistance	
	Low Viscosity	
	Thermally Insulating	
Uses	Adhesives	
	Electrical/Electronic Applications	
	Medical/Healthcare Applications	
	Optical Applications	
	Seals	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
DallG Canadian as	Dallic Carralliant	
RoHS Compliance	RoHS Compliant	
Forms	Liquid	
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 75.0	℃
CLTE - Flow		
2	3.9E-5	cm/cm/°C
3	1.3E-4	cm/cm/°C
Optical	Nominal Value	Unit
Refractive Index ⁴	1.497	
Transmittance (440 to 1680 nm)	> 96.0	%
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 100	
Part B	Mix Ratio by Weight: 6.0	
Shelf Life (23°C)	52	wk
	Nominal Value	Unit
Additional Information	Normilai value	

Die Shear Strength - >15 kg (23°C)	35.2	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus (23°C)	1.90	GPa
Weight Loss on Heating		
200°C	0.18	%
250°C	0.43	%
300°C	1.0	%
Uncured Properties	Nominal Value	Unit
Color		
5	Amber	
6	Clear/Transparent	
Density		
Part A	1.18	g/cm³
Part B	1.23	g/cm³
Viscosity ⁷ (23°C)	0.30 to 0.60	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	5800	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	83	
Relative Permittivity (1 kHz)	3.25	
Volume Resistivity (23°C)	> 1.0E+13	ohms·cm
Dissipation Factor (1 kHz)	0.013	
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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