

EPO-TEK® 302

Epoxy; Epoxide
Epoxy Technology Inc.

Message:
EPO-TEK® 302 is a two component, fast-gelling, room temperature curing epoxy, designed for electronic, optical, medical, and general applications.

General Information			
Features	Fast Gel		
	General Purpose		
	Good Adhesion		
Uses	Adhesives		
	Electrical/Electronic Applications		
	General Purpose		
	Medical/Healthcare Applications		
	Optical Applications		
	Seals		
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2003/11/EC		
	EU 2006/122/EC		
RoHS Compliance	RoHS Compliant		
Forms	Liquid		
Processing Method	Encapsulating		
	Potting		
Thermal	Nominal Value	Unit	
Glass Transition Temperature ¹	> 40.0	°C	
CLTE - Flow			
-- ²	5.2E-5	cm/cm/°C	
-- ³	1.9E-4	cm/cm/°C	
Optical	Nominal Value	Unit	
Refractive Index ⁴	1.544		
Transmittance			
340 to 420 nm	> 75.0	%	
440 to 900 nm	> 85.0	%	
900 to 1600 nm	> 88.0	%	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			

Part A	Mix Ratio by Weight: 1.0		
Part B	Mix Ratio by Weight: 1.0		
Shelf Life (23°C)	43	wk	
Additional Information	Nominal Value	Unit	Test Method
Degradation Temperature	261	°C	TGA
Die Shear Strength - >5 kg (23°C)	11.7	MPa	
Operating Temperature			
Continuous	-55 to 100	°C	
Intermittent	-55 to 200	°C	
Storage Modulus (23°C)	1.06	GPa	
Weight Loss on Heating			
200°C	2.7	%	
250°C	8.4	%	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ⁵	Clear/Transparent		
-- ⁶	Clear/Transparent		
Density			
Part B	0.898	g/cm ³	
Part A	1.20	g/cm ³	
Viscosity ⁷ (23°C)	5.0 to 10	Pa·s	
Curing Time (23°C)	2.0	hr	
Pot Life	10	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	73		
Lap Shear Strength (23°C)	12.1	MPa	
Relative Permittivity (1 kHz)	2.95		
Volume Resistivity (23°C)	> 2.0E+13	ohms·cm	
Dissipation Factor (1 kHz)	0.010		
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.	20 rpm		

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