

EPO-TEK® T905BN-3

Epoxy; Epoxide
Epoxy Technology Inc.

Message:
EPO-TEK® T905BN-3 is a thermally conductive, electrically insulating epoxy designed for heat sinking and encapsulation.

General Information		
Features	Electrically Insulating	
	Low Viscosity	
	Thermally Conductive	
Uses	Adhesives	
	Bonding	
	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	Paste	
Processing Method	Encapsulating	
	Potting	
Physical	Nominal Value	Unit
Particle Size	< 300	µm
Degradation Temperature	347	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus (23°C)	4.97	GPa
Thixotropic Index	1.53	
Weight Loss on Heating		
200°C	< 0.050	%
250°C	0.16	%
300°C	1.0	%
Thermal	Nominal Value	Unit

Glass Transition Temperature ¹	> 40.0	°C	
CLTE - Flow			
-- ²	3.7E-5	cm/cm/°C	
-- ³	1.5E-4	cm/cm/°C	
Thermal Conductivity	2.0	W/m/K	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 14		
Shelf Life (23°C)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ⁴	Clear/Transparent		
-- ⁵	Grey		
Density			
Part B	0.958	g/cm ³	
Part A	1.65	g/cm ³	
Viscosity ⁶ (23°C)	2.0 to 7.0	Pa·s	
Curing Time (80°C)	> 2.0	hr	
Pot Life	180	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	60		
Lap Shear Strength (23°C)	> 11.0	MPa	
Relative Permittivity (1 kHz)	3.51		
Volume Resistivity (23°C)	3.0E+11	ohms·cm	
Dissipation Factor (1 kHz)	9.0E-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.	Part B		
5.	Part A		
6.	50 rpm		

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