

EPO-TEK® T905BN-4

Epoxy; Epoxide
Epoxy Technology Inc.

Message:

EPO-TEK® T905BN-4 is a two component, room temperature cure, thermally conductive epoxy for general adhesive bonding, sealing, potting and encapsulation applications

General Information		
Features	Medium Viscosity	
	Thermally Conductive	
Uses	Adhesives	
	Bonding	
	Electrical/Electronic Applications	
	Medical/Healthcare Applications	
	Seals	
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	350	°C
Die Shear Strength - >5 kg (23°C)	11.7	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus (23°C)	7.94	GPa
Thixotropic Index	2.58	
Weight Loss on Heating		
200°C	0.18	%
250°C	0.64	%
300°C	1.4	%
Thermal	Nominal Value	Unit

Glass Transition Temperature ¹	> 50.0	°C	
CLTE - Flow			
-- ²	2.4E-5	cm/cm/°C	
-- ³	1.2E-4	cm/cm/°C	
Thermal Conductivity	1.8	W/m/K	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 25		
Shelf Life (23°C)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ⁴	Purple		
-- ⁵	White		
Density			
Part B	1.16	g/cm ³	
Part A	1.63	g/cm ³	
Viscosity ⁶ (23°C)	12 to 18	Pa·s	
Curing Time (80°C)	> 1.0	hr	
Pot Life	60	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	79		
Lap Shear Strength (23°C)	9.74	MPa	
Relative Permittivity (1 kHz)	3.82		
Volume Resistivity (23°C)	> 4.0E+14	ohms·cm	
Dissipation Factor (1 kHz)	0.012		
NOTE			
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -40-200°C @ 20°C/Min		
2.	Below Tg		
3.	Above Tg		
4.	Part B		
5.	Part A		
6.	20 rpm		

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