

EPO-TEK® T905-1

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

Two component, thermally conductive, electrically insulating epoxy suggested for general adhesive bonding, sealing, potting and encapsulation applications. Replacement for EPO-TEK® T905.

Formerly 78-121-1

General Information		
Features	Electrically Insulating Thermally Conductive	
Uses	Adhesives 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	< 50.0	µm
Degradation Temperature	346	°C
Die Shear Strength - >15 kg (23°C)	35.2	MPa
Operating Temperature		
Continuous	-55 to 175	°C
Intermittent	-55 to 275	°C
Storage Modulus (23°C)	3.03	GPa
Thixotropic Index	1.60	
Weight Loss on Heating		
200°C	0.27	%
250°C	1.1	%
300°C	2.7	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 40.0	°C
CLTE - Flow		
-- ²	2.5E-5	cm/cm/°C

-- ³	1.3E-4	cm/cm/°C
Thermal Conductivity	0.59	W/m/K
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 100	
Part B	Mix Ratio by Weight: 20	
Shelf Life (23°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color		
-- ⁴	Amber	
-- ⁵	Grey	
Density		
Part B	1.03	g/cm ³
Part A	2.18	g/cm ³
Viscosity ⁶ (23°C)	6.0 to 13	Pa·s
Curing Time (80°C)	> 1.0	hr
Pot Life	30	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	80	
Lap Shear Strength (23°C)	> 13.8	MPa
Relative Permittivity (1 kHz)	4.83	
Volume Resistivity (23°C)	> 1.0E+12	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.	20 rpm	

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