

EPO-TEK® TJ1104-LH

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A black, single component, low halogen, electrically insulating die attach adhesive with extended pot life.

General Information		
Features	Electrically Insulating	
	Low Halogen Content	
Uses	Adhesives	
	Electrical/Electronic Applications	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Paste	
Physical	Nominal Value	Unit
Ion Type		
Cl-	53	ppm
K+	7	ppm
Na+	13	ppm
NH4+	39	ppm
Particle Size	< 20.0	µm
Degradation Temperature	393	°C
Die Shear Strength - >20 kg (23°C)	> 46.9	MPa
Operating Temperature		
Continuous	-55 to 225	°C
Intermittent	-55 to 325	°C
Storage Modulus	9.16	GPa
Thixotropic Index	2.00	
Weight Loss on Heating		
200°C	0.070	%
250°C	0.11	%
300°C	0.27	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 100	°C
CLTE - Flow		

-- ²	4.3E-5	cm/cm/°C
-- ³	1.3E-4	cm/cm/°C
Thermal Conductivity	0.48	W/m/K
Thermoset	Nominal Value	Unit
Shelf Life (-40°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color	Black	
Density	1.72	g/cm ³
Viscosity ⁴ (23°C)	80 to 130	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	> 10000	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	88	
Lap Shear Strength (23°C)	> 13.8	MPa
Relative Permittivity (1 kHz)	3.68	
Volume Resistivity (23°C)	> 4.0E+13	ohms·cm
Dissipation Factor (1 kHz)	9.7E-3	
NOTE		
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min	
2.	Below T _g	
3.	Above T _g	
4.	1 rpm	

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