

EPO-TEK® TJ1183-LH

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

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

General Information		
Features	Electrically Insulating	
	Low Halogen Content	
	Thixotropic	
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
Particle Size	< 20.0	µm
Degradation Temperature	412	°C
Die Shear Strength - >25 kg (23°C)	58.6	MPa
Operating Temperature		
Continuous	-55 to 250	°C
Intermittent	-55 to 350	°C
Storage Modulus	6.21	GPa
Thixotropic Index	2.60	
Weight Loss on Heating		
200°C	0.050	%
250°C	0.24	%
300°C	0.66	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 90.0	°C
CLTE - Flow		
-- ²	4.7E-5	cm/cm/°C
-- ³	1.5E-4	cm/cm/°C
Thermal Conductivity	0.38	W/m/K
Thermoset	Nominal Value	Unit

Shelf Life (-40°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color	Yellow	
Density	1.52	g/cm ³
Viscosity ⁴ (23°C)	25 to 40	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	13000	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	85	
Lap Shear Strength (23°C)	> 13.8	MPa
Relative Permittivity (1 kHz)	3.17	
Volume Resistivity (23°C)	> 1.0E+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.	10 rpm	

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