

# EPO-TEK® H37-MPT

Epoxy; Epoxide

Epoxy Technology Inc.

## Message:

A single component, silver-filled and electrically conductive adhesive designed for semiconductor die attach and bonding SMDs for hybrid microelectronic packaging. It is certified and lot accepted to the requirements of MIL-STD 883/Test Method 5011. It can be used for opto-packaging including LEDs, laser and photo-diodes, and fiber optic circuit assembly.

General Information		
Filler / Reinforcement	Silver	
Features	Electrically Conductive	
	Thixotropic	
Uses	Adhesives	
	Bonding	
	Electrical/Electronic Applications	
	LEDs	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
	MIL Std. 883	
RoHS Compliance	RoHS Compliant	
Forms	Paste	
Physical	Nominal Value	Unit
Ion Type		
Cl-	< 200	ppm
K+	< 50	ppm
Na+	< 50	ppm
NH4+	53	ppm
Particle Size	< 20.0	µm
Degradation Temperature	350	°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)	3.72	GPa
Weight Loss on Heating (200°C)	0.010	%
Thermal	Nominal Value	Unit
Glass Transition Temperature <sup>1</sup>	> 90.0	°C

CLTE - Flow		
-- <sup>2</sup>	4.4E-5	cm/cm/°C
-- <sup>3</sup>	1.1E-4	cm/cm/°C
Thermal Conductivity	2.8	W/m/K
Thermoset	Nominal Value	Unit
Shelf Life (-40°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color	Silver	
Density	3.36	g/cm <sup>3</sup>
Viscosity <sup>4</sup> (23°C)	80 to 110	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	40000	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	76	
Lap Shear Strength (23°C)	11.7	MPa
Volume Resistivity (23°C)	< 5.0E-4	ohms·cm
NOTE		
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min	
2.	Below Tg	
3.	Above Tg	
4.	2.5 rpm	

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#### Recommended distributors for this material

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