

EPO-TEK® H37-MP

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® H37-MP is a single component, electrically conductive, thixotropic silver-filled adhesive for die-attach and SMD attach inside hybrid microelectronic packages. Also available in a frozen syringe.

Formerly EP108

General Information		
Filler / Reinforcement	Silver	
Features	Electrically Conductive	
	Good Adhesion	
	Low to No Outgassing	
	Thixotropic	
Uses	Adhesives	
	Electrical/Electronic Applications	
	Military Applications	
Agency Ratings	ASTM E 595	
	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+	65	ppm
Particle Size	< 20.0	µm
Degradation Temperature	358	°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)	5.02	GPa
Thixotropic Index	3.62	

Weight Loss on Heating			
200°C	0.13	%	
250°C	0.41	%	
300°C	0.80	%	
Thermal	Nominal Value	Unit	
Glass Transition Temperature ¹	> 90.0	°C	
CLTE - Flow			
-- ²	5.2E-5	cm/cm/°C	
-- ³	1.5E-4	cm/cm/°C	
Thermal Conductivity	1.6	W/m/K	
Thermoset	Nominal Value	Unit	Test Method
Shelf Life (-40°C)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color	Silver		
Density	3.06	g/cm ³	
Viscosity ⁴ (23°C)	22 to 26	Pa·s	
Curing Time (150°C)	1.0	hr	
Pot Life	40000	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	80		
Lap Shear Strength (23°C)	13.0	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.	10 rpm		

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