

EPO-TEK® H70S

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO TEK® H70S is a modified version of EPO TEK® H70E, designed primarily for die stamping. It is a highly reliable, alumina- filled epoxy with a smooth, flowable consistency, designed for chip bonding in micro-electronic and opto-electronic applications.

General Information		
Features	Fast Cure	
	Good Adhesion	
	Thermally Conductive	
Uses	Adhesives	
	Bonding	
	Electrical/Electronic Applications	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Paste	
Processing Method	Potting	
Physical	Nominal Value	Unit
Ion Type		
Cl-	231	ppm
K+	39	ppm
Na+	95	ppm
Particle Size	< 20.0	µm
Degradation Temperature	400	°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)	2.41	GPa
Thixotropic Index	1.37	
Weight Loss on Heating (250°C)	2.3	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 50.0	°C
CLTE - Flow		

-- ²	4.0E-5	cm/cm/°C	
-- ³	1.9E-4	cm/cm/°C	
Thermal Conductivity	0.44	W/m/K	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 1.0		
Part B	Mix Ratio by Weight: 1.0		
Shelf Life (23°C)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ⁴	Cream		
-- ⁵	Grey		
Density			
Part A	1.25	g/cm ³	
Part B	2.02	g/cm ³	
Viscosity ⁶ (23°C)	1.3 to 1.8	Pa·s	
Curing Time (150°C)	1.0	hr	
Pot Life	4300	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	83		
Lap Shear Strength (23°C)	> 13.8	MPa	
Relative Permittivity (1 kHz)	4.97		
Volume Resistivity	> 7.0E+13	ohms·cm	
Dissipation Factor (1 kHz)	0.016		
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 A		
5.	Part B		
6.	100 rpm		

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