

EPO-TEK® H20S

Epoxy; Epoxide
Epoxy Technology Inc.

Message:

EPO-TEK® H20S is a modified version of EPO-TEK® H20E, designed primarily for die stamping and dispensing techniques for chip bonding. EPO-TEK® H20S is a highly reliable, two component, silver-filled epoxy with a smooth, thixotropic consistency. In addition to the high electrical conductivity, the short curing cycles, the proven reliability, and the convenient mix ratio, EPO-TEK® H20S is extremely simple to use.

General Information		
Filler / Reinforcement	Silver	
Features	Electrically Conductive	
	Electromagnetic Shielding (EMI)	
	Fast Cure	
	Radio Frequency Shielding (RFI)	
	Thixotropic	
Uses	Adhesives	
	Bonding	
	Electrical/Electronic Applications	
	LCD Applications	
	LEDs	
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-	162	ppm
K+	4	ppm
Na+	0	ppm
NH4+	282	ppm
Particle Size	< 20.0	µm
Degradation Temperature	414	°C
Die Shear Strength - >5 kg (23°C)	11.7	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus (23°C)	2.34	GPa

Thixotropic Index	5.00		
Weight Loss on Heating			
200°C	0.40	%	
250°C	0.60	%	
300°C	1.4	%	
Thermal	Nominal Value	Unit	
Glass Transition Temperature ¹	> 80.0	°C	
CLTE - Flow			
-- ²	3.1E-5	cm/cm/°C	
-- ³	1.2E-4	cm/cm/°C	
Thermal Conductivity	3.3	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	Silver		
-- ⁵	Silver		
Density			
Part A	1.74	g/cm ³	
Part B	3.06	g/cm ³	
Viscosity ⁶ (23°C)	1.8 to 2.8	Pa · s	
Curing Time (150°C)	1.0	hr	
Pot Life	4300	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	64		
Lap Shear Strength (23°C)	8.55	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.	Part B		
5.	Part A		
6.	100 rpm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

