

EPO-TEK® H20F

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® H20F is a two component, flexible silver epoxy. It was designed for flexible type circuitry, such as switching circuits in a flexible panel system, as well as large die-attach or substrate attach.

General Information			
Features	Electrically Conductive		
	Good Flexibility		
	Thixotropic		
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		
Physical	Nominal Value	Unit	
Particle Size	< 45.0	µm	
Degradation Temperature	384	°C	TGA
Die Shear Strength - >2 kg (23°C)	4.69	MPa	
Operating Temperature			
Continuous	-55 to 175	°C	
Intermittent	-55 to 275	°C	
Storage Modulus (23°C)	146	MPa	
Thixotropic Index	4.00		
Weight Loss on Heating			
200°C	0.51	%	
250°C	0.78	%	
300°C	1.8	%	
Thermal	Nominal Value	Unit	
Glass Transition Temperature ¹	> 20.0	°C	
CLTE - Flow ²	1.0E-5	cm/cm/°C	
Thermal Conductivity	4.1	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			
-- ³	Silver		
-- ⁴	Silver		
Density			
Part A	2.50	g/cm ³	
Part B	3.55	g/cm ³	
Viscosity ⁵ (23°C)	1.5 to 3.0	Pa·s	
Curing Time (150°C)	1.0	hr	
Pot Life	2200	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	46		
Volume Resistivity (23°C)	< 1.0E-4	ohms·cm	
NOTE			
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min		
2.	Below Tg		
3.	Part B		
4.	Part A		
5.	100 rpm		

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Recommended distributors for this material

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



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