

EPO-TEK® H20E-D

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

One component, silver-filled epoxy with a smooth thixotropic consistency. It is a version of EPO-TEK® H20E designed primarily for enhanced dispensability.

Formerly 97-162-1

General Information		
Filler / Reinforcement	Silver	
Features	Thixotropic	
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-	93	ppm
K+	9	ppm
Na+	18	ppm
NH4+	131	ppm
Particle Size	< 45.0	µm
Degradation Temperature	407	°C
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus	6.65	GPa
Thixotropic Index	4.80	
Weight Loss on Heating		
200°C	0.48	%
250°C	1.1	%
300°C	1.7	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 80.0	°C
CLTE - Flow		
-- ²	4.7E-5	cm/cm/°C
-- ³	2.0E-4	cm/cm/°C
Thermal Conductivity	3.3	W/m/K
Thermoset	Nominal Value	Unit

Shelf Life (-40°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color	Silver	
Density	3.02	g/cm ³
Viscosity ⁴ (23°C)	1.4 to 1.9	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	4300	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	72	
Lap Shear Strength (23°C)	9.16	MPa
Volume Resistivity (23°C)	4.0E-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.	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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