

# EPO-TEK® 377H

Epoxy; Epoxide  
Epoxy Technology Inc.

Message:

EPO-TEK® 377H is a two component, high Tg, graphite filled epoxy designed for ESD/EMI shielding of semiconductor devices and electronics. It can be used in many electronic industries like consumer, military, medical, and optical / OEM / fiber optics. It is an electrically conductive version of EPO-TEK® 377.

General Information		
Filler / Reinforcement	Graphite Fiber	
Features	Electrically Conductive	
	Electromagnetic Shielding (EMI)	
	ESD Protection	
	Good Adhesion	
	Low Viscosity	
Uses	Consumer Applications	
	Electrical/Electronic Applications	
	Medical/Healthcare Applications	
	Military Applications	
	Optical Applications	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Liquid	
Physical	Nominal Value	Unit
Particle Size	< 40.0	µm
Degradation Temperature	345	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 175	°C
Intermittent	-55 to 275	°C
Storage Modulus (23°C)	2.87	GPa
Weight Loss on Heating		
200°C	0.090	%
250°C	0.66	%
300°C	0.78	%
Thermal	Nominal Value	Unit

Glass Transition Temperature <sup>1</sup>	> 95.0	°C	
CLTE - Flow			
-- <sup>2</sup>	5.6E-5	cm/cm/°C	
-- <sup>3</sup>	2.0E-4	cm/cm/°C	
Optical	Nominal Value	Unit	
Transmittance (400 to 1500 nm)	< 0.1	%	
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			
-- <sup>4</sup>	Black		
-- <sup>5</sup>	Black		
Density			
Part A	1.29	g/cm <sup>3</sup>	
Part B	1.33	g/cm <sup>3</sup>	
Viscosity <sup>6</sup> (23°C)	0.50 to 1.0	Pa·s	
Curing Time (150°C)	1.0	hr	
Pot Life	1400	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	80		
Lap Shear Strength (23°C)	> 13.8	MPa	
Volume Resistivity (23°C)	> 4.0E+2	ohms·cm	

#### NOTE

- |    |  |
|----|--|
| 1. | Dynamic Cure 20-200°C/ISO 25<br>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.

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

