

# EPO-TEK® H77T

Epoxy; Epoxide

Epoxy Technology Inc.

## Message:

EPO-TEK® H77T is a two component, thermally conductive, electrically insulating epoxy designed for lid-sealing of hybrids found in hermetic packaging of micro-electronics. Lids can be ceramic, glass, aluminum or kovar. Package types can be plastic, metal cases or ceramic.

General Information		
Features	Electrically Insulating	
	Good Chemical Resistance	
	Solvent Resistant	
	Thermally Conductive	
	Thixotropic	
Uses	Aircraft Applications	
	Automotive Under the Hood	
	Electrical/Electronic Applications	
	Medical/Healthcare Applications	
	Seals	
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	< 50.0	µm
Degradation Temperature	413	°C
Die Shear Strength - >5 kg (23°C)	11.7	MPa
Operating Temperature		
Continuous	-55 to 260	°C
Intermittent	-55 to 360	°C
Storage Modulus (23°C)	5.40	GPa
Thixotropic Index	3.00	
Weight Loss on Heating		
200°C	< 0.050	%
250°C	0.080	%
300°C	0.22	%
Thermal	Nominal Value	Unit

Glass Transition Temperature <sup>1</sup>	> 80.0	°C	
CLTE - Flow			
-- <sup>2</sup>	3.4E-5	cm/cm/°C	
-- <sup>3</sup>	1.3E-4	cm/cm/°C	
Thermal Conductivity	1.1	W/m/K	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 15		
Shelf Life (23°C)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- <sup>4</sup>	Amber		
-- <sup>5</sup>	Grey		
Density			
Part B	1.22	g/cm <sup>3</sup>	
Part A	2.68	g/cm <sup>3</sup>	
Viscosity <sup>6</sup> (23°C)	23 to 34	Pa·s	
Curing Time (150°C)	1.0	hr	
Pot Life	480	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	89		
Lap Shear Strength (23°C)	8.38	MPa	
Relative Permittivity (1 kHz)	5.40		
Volume Resistivity (23°C)	> 2.0E+13	ohms·cm	
Dissipation Factor (1 kHz)	4.0E-3		
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.	10 rpm		

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