EPO-TEK® TV2001

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A two component, thermally conductive, electrically insulating epoxy designed for low stress semiconductor and electronics packaging. Low Tg, moderate pot-life, snap-curing and very low modulus are a few of its traits. It is particularly suitable for bonding ferrite cores in power device plastic packaging. Excellent adhesion to PCBs, ceramics, most metals and lead-frames. Also available in a frozen syringe.
Formerly 300-180-1-4

General Information	
Features	Electrically Insulating Good Adhesion Thermally Conductive
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	< 20.0	µm
Degradation Temperature	466	°C
Die Shear Strength - >15 kg (23°C)	35.2	MPa
Operating Temperature		
Continuous	-55 to 225	°C
Intermittent	-55 to 325	°C
Storage Modulus (23°C)	112	MPa
Thixotropic Index	1.95	
Weight Loss on Heating		
200°C	0.080	%
250°C	0.17	%
300°C	0.35	%

Thermal	Nominal Value	Unit
Glass Transition Temperature [1]	> 15.0	°C
CLTE - Flow		
-- [2]	6.7E-5	cm/cm/°C

--[3]	1.9E-4	cm/cm/°C
Thermal Conductivity	0.40	W/m/K

Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 100	
Part B	Mix Ratio by Weight: 6.0	
Shelf Life (23°C)	52	wk

Uncured Properties	Nominal Value	Unit
Color		
--[4]	White	
--[5]	Yellow	
Density		
Part B	0.988	g/cm³
Part A	1.45	g/cm³
Viscosity[6] (23°C)	10 to 20	Pa·s
Pot Life	2900	min

Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	45	
Lap Shear Strength (23°C)	> 13.8	MPa
Relative Permittivity (1 kHz)	3.42	
Volume Resistivity (23°C)	> 8.0E+12	ohms·cm
Dissipation Factor (1 kHz)	0.016	

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 A
5.	Part B
6.	20 rpm

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

WECHAT