

# EPO-TEK® TV1002

Thermoset Polyimide

Epoxy Technology Inc.

## Message:

A single component, screen printable polyimide adhesive designed for semiconductor wafer passivation applications. It is a high temperature chemistry capable of resisting >400°C seen in back-end wafer fabrication processes. Coating thicknesses of 10-90 um may be achieved. Ultra fine print definition, high Tg, low outgassing, and ionic cleanliness are a few of its traits.

Formerly 201-180-4

General Information		
Features	High Heat Resistance	
	Low to No Outgassing	
Uses	Adhesives	
	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
Ion Type		
Cl-	50	ppm
K+	2	ppm
Na+	107	ppm
NH4+	27	ppm
Particle Size	< 10.0	µm
Degradation Temperature	519	°C
Drying Time	672.0	hr
Operating Temperature		
Continuous	-55 to 300	°C
Intermittent	-55 to 400	°C
Storage Modulus (23°C)	7.79	GPa
Thixotropic Index	> 1.30	
Weight Loss on Heating		
200°C	0.22	%
250°C	0.23	%
300°C	0.29	%
Thermal	Nominal Value	Unit

Glass Transition Temperature <sup>1</sup>	> 200	°C
CLTE - Flow		
-- <sup>2</sup>	4.6E-5	cm/cm/°C
-- <sup>3</sup>	1.4E-4	cm/cm/°C
Thermal Conductivity	0.76	W/m/K
Thermoset	Nominal Value	Unit
Shelf Life (23°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color	Black	
Density	1.22	g/cm <sup>3</sup>
Viscosity <sup>4</sup> (23°C)	350 to 550	Pa·s
Curing Time <sup>5</sup>	2.0	hr
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	80	
NOTE		

- |    |   |
|----|---|
| 1. | Cure 150°C/1 hour + 275°C/1 hours; Ramp 20°C/min to 350°C |
| 2. | Below Tg  |
| 3. | Above Tg  |
| 4. | 0.5 rpm   |
| 5. | 150°C/1 Hour + 275°C/1 Hour                               |

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