

Epoxy Technology EPO-TEK® TV1002 Polyimide Adhesive

Category : Polymer , Adhesive , Thermoset , Polymethacrylimide

Material Notes:

Material Description: 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. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-TV1002-Polyimide-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	
Particle Size	<= 10 µm	<= 10 µm	
Viscosity	350000 - 550000 cP @Temperature 23.0 °C	350000 - 550000 cP @Temperature 73.4 °F	0.5 rpm

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Tensile Modulus	7.79 GPa	1130 ksi	Storage

Thermal Properties	Metric	English	Comments
CTE, linear	46.0 µm/m-°C	25.6 µin/in-°F	Below Tg
	139 µm/m-°C	77.2 µin/in-°F	Above Tg
Thermal Conductivity	0.760 W/m-K	5.27 BTU-in/hr-ft²-°F	
Maximum Service Temperature, Air	300 °C	572 °F	Continuous
	400 °C	752 °F	Intermittent
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	Continuous
	-55.0 °C	-67.0 °F	Intermittent
Glass Transition Temp, Tg	>= 200 °C	>= 392 °F	Cure 150°C/1 hour + 275°C/1 hours; Ramp 20°C/min to 350°C
Decomposition Temperature	519 °C	966 °F	Degradation Temperature

Chemical Properties	Metric	English	Comments
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Ionic Impurities - Na (Sodium) Chemical Properties	107 ppm Metric	107 ppm English	Comments
Ionic Impurities - K (Potassium)	2.0 ppm	2.0 ppm	
Ionic Impurities - Cl (Chloride)	50 ppm	50 ppm	

Processing Properties	Metric	English	Comments
Cure Time	60.0 min @Temperature 150 °C	1.00 hour @Temperature 302 °F	+ 275°C, Minimum, Pre-Bake
Shelf Life	12.0 Month @Temperature 25.0 °C	12.0 Month @Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Black	
Consistency	Smooth paste	
Die Shear	3.8 kg	
Ionic Impurities NH4	27 ppm	
Number of Components	Single	
Thixotropic Index	>1.3	between 0.5 & 1 rpm
Weight Loss	0.22%	200°C
	0.23%	250°C
	0.29%	300°C

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