

**NEXUS™ 86251**
**DUAL CURE UV/THERMAL EPOXY**
**TECHNICAL DATA**
**July 2014**
**Product Description**

Dual Cure UV/Thermal adhesive that sets rapidly under UV Light. Flowable, UV Gellable, High Temperature Resistant, Rigid, Clear Low Shrinkage in Electronic Packages. High humidity and shock resistance.

APPLICATIONS	FEATURES	SUBSTRATES	PACKAGING
<ul style="list-style-type: none"> <li>• Electronics</li> <li>• Encapsulation</li> <li>• Potting</li> </ul>	<ul style="list-style-type: none"> <li>• RoHS Compliant</li> <li>• UV Gel</li> <li>• High Temperature, Humidity Resistance</li> </ul>	<ul style="list-style-type: none"> <li>• Metals</li> <li>• Rubber</li> <li>• Plastic</li> </ul>	<ul style="list-style-type: none"> <li>• Dual Cartridges</li> </ul>

TYPICAL PROPERTIES OF UNCURED MATERIAL		
Property	Value, Part A	Value, Part B
Chemical Class	Epoxy	Amine
Appearance	Clear	Clear
Viscosity, 10 RPM, cps	1,600	4,400
Viscosity, 100 RPM, cps	1,500	4,000
Specific Gravity	1.13	1.09
Mix Ratio by Volume	2	1
TYPICAL PROPERTIES OF CURED MATERIAL		
Property	Value	
Glass Transition Temperature (T <sub>g</sub> ), °C	80	
Lap Shear Strength, Al/Al, PSI	5,000	
Hardness, Shore	D80	
Ultimate Tensile Strength, PSI	4,000	
Elongation at Break, %	6	
Young's Modulus (20°C), PSI	-	
Volume Resistivity, Ω-cm	-	

\*All properties indicate typical values which are not meant to be used for preparing specifications.

PROCESSING	
Work Life	15 Minutes
Cure Options	UV Gel; 24 hours @ RT, 1.5 hours @ 65°C, 0.5 hours @ 100°C
Clean-Up Solvent	Isopropyl Alcohol

**SHELF LIFE, STORAGE**
**18 ± 10°C 1 Year DOM**
**THIS MATERIAL IS SOLD FOR INDUSTRIAL USE ONLY**

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