

**NEXUS™ 53051**

**HARD POLYURETHANE ENCAPSULANT**

**TECHNICAL DATA**

**July 2014**

**Product Description**

High Performance polycarbonate bonder and encapsulant, clear, flexible.

APPLICATIONS	FEATURES	SUBSTRATES	PACKAGING
<ul style="list-style-type: none"> <li>• LED Encapsulation</li> </ul>	<ul style="list-style-type: none"> <li>• RoHS Compliant</li> <li>• Clear</li> <li>• Non-Yellowing</li> <li>• Hard Surface</li> </ul>	<ul style="list-style-type: none"> <li>• Plastics</li> <li>• Metals</li> <li>• Glass</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	Isocyanate	Polyol
Appearance	Clear	Clear
Viscosity, 10 RPM, cps	520	1,700
Viscosity, 100 RPM, cps	-	-
Specific Gravity	1.08	1.05
Mix Ratio by Volume	1	1

TYPICAL PROPERTIES OF CURED MATERIAL	
Property	Value
Glass Transition Temperature (T <sub>g</sub> ), °C	40
Lap Shear Strength, Al/Al, PSI	-
Hardness, Shore	D75
Ultimate Tensile Strength, PSI	-
Elongation at Break, %	-
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	4 Minutes
Cure Options	24 hours @ RT
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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