

# NEXUS™ 52101

## POLYURETHANE ADHESIVE AND ENCAPSULANT

### TECHNICAL DATA

February 2016

#### Product Description

General purpose adhesive, encapsulant, plastic bonder. High Performance clear and flexible polycarbonate bonder.

#### APPLICATIONS

- Automotive
- Bonding Plastics
- Encapsulant
- Potting

#### FEATURES

- RoHS & REACH Compliant
- Clear
- Flexible
- Low Temp Performance

#### SUBSTRATES

- Polycarbonate
- Metals
- Glass
- Hard to Bond Plastic

#### PACKAGING

- Dual Cartridges

### TYPICAL PROPERTIES OF UNCURED MATERIAL

Property	Value, Part A	Value, Part B
Chemical Class	Isocyanate	Polyol
Appearance	Clear	Clear
Viscosity, 10 RPM @ 25°C, cps	7,000 to 11,000	1,000 to 2,000
Viscosity, 100 RPM @ 25°C, cps	7,000 to 11,000	1,000 to 2,000
Specific Gravity	1.11	1.05
Mix Ratio by Volume	1	1

### TYPICAL PROPERTIES OF CURED MATERIAL

Property	Value
Glass Transition Temperature (Tg), °C	-20
Lap Shear Strength, Al/Al, PSI	> 1850
Hardness, Shore	D45
Ultimate Tensile Strength, PSI	> 500
Elongation at Break, %	170
Volume Resistivity, Ω-cm	1 x 10 <sup>15</sup>

**\*All properties given are typical values and are not intended for use in preparing specifications.**

### CURE OVERVIEW

Gel Time (15cc mass), Min	8 to 10
Cure Options: Hrs @ 25°C; Min @ 65°C	24; 30 to 45
Clean-Up Solvent	Isopropyl Alcohol

### SHELF LIFE, STORAGE

18 ± 10°C 1 Year DOM

MATERIAL IS MOISTURE SENSITIVE. CONSULT SDS FOR SAFE HANDLING RECOMMENDATIONS.

### THIS MATERIAL IS SOLD FOR INDUSTRIAL USE ONLY

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