

NEXUS™ 51031

GENERAL PURPOSE HIGH PERFORMANCE POLYURETHANE ADHESIVE

TECHNICAL DATA

February 2016

Product Description

Fast setting adhesive for thermoplastic polyurethanes, wood, metals and ceramics.

APPLICATIONS

- Automotive
- Bonding Plastics

FEATURES

- RoHS & REACH Compliant
- Fast Setting (3 min)
- Low Viscosity
- Hard

SUBSTRATES

- Plastics
- Metals
- Ceramics

PACKAGING

- Dual Cartridges
- Bulk

TYPICAL PROPERTIES OF UNCURED MATERIAL

Property	Value, Part A	Value, Part B
Chemical Class	Isocyanate	Polyol
Appearance	Light Amber	Amber
Viscosity, 10 RPM @ 25°C, cps	450 to 500	600 to 900
Viscosity, 100 RPM @ 25°C, cps	450 to 500	600 to 900
Specific Gravity	1.10	1.04
Mix Ratio by Volume	1	1

TYPICAL PROPERTIES OF CURED MATERIAL

Property	Value
Glass Transition Temperature (Tg), °C	-60
Lap Shear Strength, Al/Al, PSI	>1800
Hardness, Shore	D80
Ultimate Tensile Strength, PSI	>2400
Elongation at Break, %	60
Operating Temperature (°C)	-30 to 120
Volume Resistivity, Ω-cm	1 x 10 ¹¹

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

CURE OVERVIEW

Gel Time (15cc mass), Min	3
Cure Options: Hrs @ 25°C	24
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

RESIN DESIGNS, LLC MAKES NO EXPRESS OR IMPLIED REPRESENTATIONS OR WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WITH RESPECT TO THIS PRODUCT AND GUARANTEES NO PARTICULAR OUTCOME OR RESULT FROM ITS USE. RESIN DESIGNS' LIABILITY TO CUSTOMER WITH RESPECT TO THIS PRODUCT SHALL IN NO EVENT EXCEED THE AMOUNT PAID BY CUSTOMER FOR IT.