

CNSL-BASED ADHESIVES GUIDE FORMULATIONS

2K EPOXY- POLYURETHANE HYBRIDS WITH NX-5607, NX-2026 AND NX-9212 IN COMPARISON TO PPG 2000

- Improved adhesion strength
- Increased flexibility
- Fast cure
- Curable at room temperature

BIO-BASED CURING AGENT, DIOL AND
NCO BLOCKING AGENT

EPOXY - POLYURETHANE HYBRID ADHESIVES

BUILDING AND CONSTRUCTION,
ASSEMBLY, TRANSPORTATION,
ELECTRICAL/ELECTRONICS

Guide Formulation

Ingredients	Formula 1 pbw	Formula 2 pbw	Formula 3 pbw
Part A			
Epon 828 ²	100	70	70
NX-2026 ¹ blocked PU prepolymer (3.8% MDI functional PPG 2000 based)		30	
NX-2026 ¹ blocked PU prepolymer (3% MDI functional NX-9212 ¹ based)			30
Part B			
NX-5607 ¹	50	37.6	37.8

¹ Cardolite ² Hexion

Typical Properties

Properties	Formula 1	Formula 2	Formula 3
Cure condition	40°C/16hr + 60°C/4hr (RT curable)		
Lap shear strength on sand blasted steel, MPa	16.8	20.3	23.7
T-peel strength (N/mm) on sand blasted Aluminum	0.27	0.70	3.22
Glass transition temperature, °C	93	85	83
Lap shear strength on sand blasted Aluminum, MPa	10.8	n/a	20.7

PROCESSING

All liquid components are blended together with a high shear mixer. The product is generally degassed after mixing and before packaging. **Please refer to each supplier's material safety data sheet (MSDS) for the most current safety and handling information.**

DISCLAIMER

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Cardolite Corporation
140 Wharton Rd
Bristol, PA 19007
United States of America
T: +1-800-322-7365
www.cardolite.com