

Cardolite[®] NX-9001

Polyol Resin

Technical Datasheet

DESCRIPTION

Cardolite NX-9001 is a unique polyol with medium to high functionality based on cashew nutshell liquid technology. This product provides excellent water and alkaline resistance, as well as improved fire and thermal resistance properties.

TYPICAL PROPERTIES

PROPERTY	SPECIFICATION	TEST METHOD
Color (Gardner)	≤ 18	ASTM D1544
Viscosity @ 25°C (cPs)	1,700 - 2,500	ASTM D2196
Hydroxyl Value (mg KOH/g)	165 - 195	ASTM D4274
pH	7 - 9.5	NTM-24
Moisture (%)	≤ 0.1	Karl-Fischer

PROPERTY	TYPICAL VALUE	TEST METHOD
Appearance	Red color liquid	Visual
Density @ 25°C (kg/L) (lbs/gal)	0.99 8.22	ASTM D1475
Flash Point	94°C / 201°F	ASTM D93
Hydroxyl Equivalent Weight (g/mole)	288 - 340	Calculated

Typical properties are not to be construed as specifications

APPLICATIONS

Cardolite NX-9001 is suitable for C.A.S.E., flexible or rigid foams (co-polyol in spray foam, continuous PUR panels, rigid boardstocks, high-med index PIR).

ADVANTAGES

- Hydrophobicity (long aliphatic chain of cardanol)
- Fast cure minimizing the amount of catalyst
- Quick return to service
- Hydrolytic stability
- Good mechanical strength
- Based from natural, renewable, non-food chain raw material feedstock

CURE PROPERTIES

	FORMULATION	TEST METHOD
Desmodur 44V20L (Poly MDI: NCO eq. wt 133)	41.6	
Cardolite NX-9001 (pbw)	100	
Gel time, 50 g @ 25°C (min)	31	NTM-15
@ 5°C (41°F) Dry Hard at 8mil WFT (hour)	12	ASTM D5895

REGULATORY STATUS

Please refer to the material safety data sheet (MSDS). Specific information regarding chemical inventory listing can be obtained from your local sales representative.

SAFETY PRECAUTIONS

Please refer to the material safety data sheet (MSDS). Copies of the MSDS can be requested on the Cardolite website or via your local sales representative.

STABILITY AND STORAGE

Cardolite products may absorb moisture and carbon dioxide when left in open containers, which could result in increased viscosity, discoloration, reduction of reactivity, and/or crystallization of the products. These products should be kept tightly sealed in their original containers when not in use, and stored in a cool, dry place.

CONTACT INFORMATION



<http://www.cardolite.com>

Cardolite Corporation
140 Wharton Road
Bristol, PA 19007
United States of America

Cardolite Specialty
Chemicals Europe NV
Wijmenstraat 21K / 2
B-9030 Mariakerke (Gent)
Belgium

Cardolite Specialty Chemicals
India LLP
Plot No. IP-1 & IP-2, Mangalore
Special Economic Zone
Bajpe, Mangalore 574 142
India

Cardolite Chemical
Zhuhai Ltd.
1248 Ninth Shihua Road
Gaolan Port Economic Zone
Zhuhai, Guangdong 519050
P.R. China

T: +1-800-322-7365

T: +32 (0) 92658826

T: + 91 (0) 824 2888 300

T: +86-756-726-9066

DISCLAIMER & COPYRIGHT

All statements, technical information and recommendations contained herein are based on tests Cardolite believes to be reliable, but the accuracy or completeness thereof is not guaranteed. Actual test method procedures may differ from listed standards; major differences are noted. Limitation of liability and remedy: Purchase or use of these products constitutes an agreement with seller and manufacturer that, if the product proves to be defective or unsuitable, seller's and manufacturer's liability and the exclusive remedy, regardless of tort or contract theory or of incidental or consequential damages shall be to receive, at seller's or manufacturer's option, an equivalent quantity of replacement product or a refund of the purchase price. This datasheet is copyrighted to Cardolite Corporation and may be reproduced but not altered in any way.