



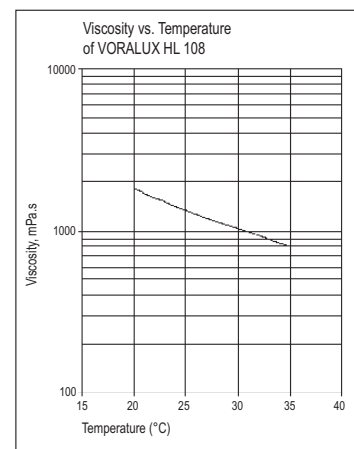
VORALUX HL 108

Polyol

General Description

VORALUX™ HL 108 polyol is a copolymer polyol (CPP) especially designed for the production of high loadbearing flexible slabstock foams.

It is a BHT-free product that can be used both with or without auxiliary blowing agents to produce a wide range of foam grades from low to high density, giving around 70% hardness increase over VORANOL™ 3322.



Properties¹ of VORALUX HL 108

Typical¹ Properties

Appearance / physical state

Value

white opaque
viscous liquid

Test Method

Hydroxyl number (mg KOH/g)

39

DOWM 101432

Water, max. (%)

0.070

ASTM E203-96

Solids, 40°C (%)

25

DOWM 101688-TE97A

Specific gravity, 25/25°C

1.023

Viscosity, 25°C, Cone & Plate (mPa.s)

1350

ISO 3219 (93)

Flash point, °C

>180

ASTM D93

CAS # ²

9082-00-2

057913-80-1

¹ Typical properties, not to be construed as specifications.

² Please consult your Dow representative for more detailed information regarding regulatory status.

Processing

VORALUX HL 108 polyol processes well on all types of foam machinery. Starting formulations are available upon request.

See "Handling and Storage" next page

Safety Considerations for VORALUX HL 108

Safety Data Sheet [SDS] for VORALUX™ HL 108 polyol is available from The Dow Chemical Company. SDS is provided to help customers satisfy their own handling, safety and disposal needs, and those that may be required by locally applicable health and safety regulations. SDS sheets are updated regularly. Therefore, please request and review the most current SDS before handling or using any product. Copies of the SDS are available on request through your nearest Dow Sales office.

Toxicity

Most VORALUX polyols generally present no significant hazard in use when simple precautions are followed. However, some VORALUX polyols might present some hazards and before working with these products it is necessary to understand the hazards involved. See SDS for specific information.

These polyols are commonly used in «urethane» systems that contain other more hazardous materials (e.g. isocyanates, amines). Anyone working with urethane systems must understand all the hazards involved in handling such systems and must establish and follow safe work procedures. Recommendations for handling, storage, and disposal of each formulation ingredients should be obtained from its supplier.

First Aid

Skin and Eyes

When working with VORALUX polyols, avoid contact of polyol with eyes or skin. Safety glasses are suggested for use with most polyols. However, some VORALUX polyols require that chemical workers' goggles be worn. See the product specific SDS, Section 8. Skin contaminated with polyols should be washed with soap and plenty of water. If polyol contacts eyes, flush with plenty of low-pressure flowing water. If irritation occurs from contact with polyols, get prompt medical attention.

Ingestion

If a polyol is swallowed, give large amounts of water to dilute, but never give fluids or induce vomiting if patient is unconscious or is having convulsions. Obtain prompt medical attention.

Inhalation

VORALUX polyols when present alone do not present a significant problem from inhalation. If any ill effects should occur, get the affected person to fresh air and obtain prompt medical attention.

Fire and Explosion

VORALUX polyols are organic materials that will burn under the right conditions of heat and oxygen supply. Store and handle polyols away from open flame or high heat sources. Fires can be extinguished with water fog or other conventional means.

Fire fighters should wear positive pressure, self-contained breathing apparatus.

While polyols have no known explosion limits, if heated to decomposition in a confined area, they may generate sufficient volatile gases to be an explosion hazard.

Polyols are stable under normal conditions. Materials to avoid are oxidising compounds.

Hazardous polymerisation may occur with isocyanates.

Spills and Disposal The preferred way of disposal is to incinerate under controlled conditions in accordance with all local and national environmental laws and regulations.

Customer Notice Dow encourages its customers to review their applications of Dow products from the standpoint of human health and environmental quality. To help ensure that Dow products are not used in ways for which they were not intended or tested, Dow personnel are willing to assist in dealing with ecological and product safety considerations. Your Dow representative can arrange the proper contacts.

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