



# DATASHEET

## CARADOL MD46-18

URETHANE CHEMICALS FOR HIGH RESILIENCE  
SLABSTOCK APPLICATIONS

**U312X**

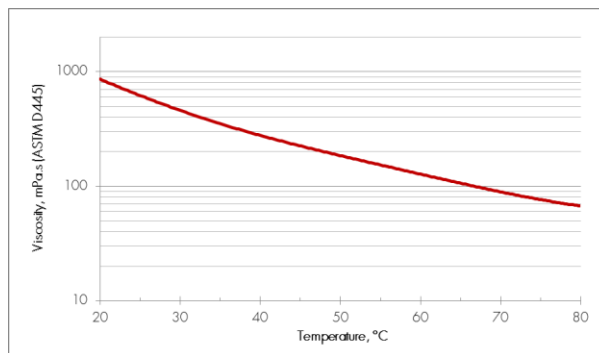
Revised July 2020

CARADOL MD46-18 is a low VOC polyether polyol to produce high resilience flexible polyurethane slab-stock foams. It is especially designed for production of higher resilience foam utilizing foam processing techniques similar to conventional slab-stock foaming, and with use of conventional slab-stock silicones, catalysts and additives. It is designed to give high resilient foam with significantly improved foam compression set and porosity. It has a wide processing tolerance over a normal density and hardness range. Performance testing should be conducted before the product is used or brought into contact with HR systems based on EO tipped polyols. This includes diluting catalysts for HR foaming with this polyol or mixing this product with other slab polyols before it is used or brought into contact with HR systems based on EO tipped polyols.

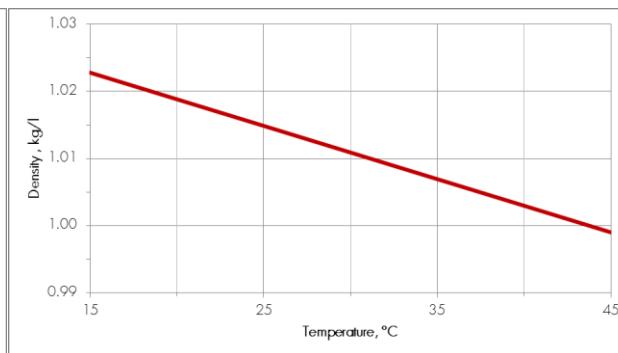
### TYPICAL PROPERTIES

PROPERTY	TEST METHOD	UNIT	VALUE
Appearance			clear liquid
Hydroxyl value	ASTM D4274D	mg KOH/g	46
Density at 25°C	ASTM D4052	kg/l	1.02
Water content	ASTM D4672	% m/m	0.05
Viscosity at 25°C	ASTM D445	mm <sup>2</sup> /s	670
Flash point	ASTM D93	°C	> 200

### VISCOSITY/TEMPERATURE CHARACTERISTICS



### DENSITY/TEMPERATURE CHARACTERISTICS



The above typical physical properties are published here as a guide to potential users of the product. A sales specification is published separately.

# CARADOL MD46-18

## URETHANE CHEMICALS FOR SLABSTOCK APPLICATIONS

### TEST METHODS

ASTM standards are published by the American Society for Testing and Materials at [www.astm.org](http://www.astm.org).

### STORAGE AND HANDLING

CARADOL SC48-08 is slightly hygroscopic and must be stored under conditions so that contamination with water and absorption of moisture are prevented. Contact with copper, copper alloys or zinc must be avoided.

The storage temperature of CARADOL SC48-08 is not critical, in that there will be no hazardous conditions created by the storage of the product at any ambient temperature likely to be encountered. It should be noted however that a normal storage temperature, ensuring optimum processing conditions when using the product, is between 20°C and 25°C and that storage at low temperatures may result in the product viscosity being too high for transfer from the storage container with the pumps available.

CARADOL SC48-08 is a stable product and its processing performance is not expected to deteriorate significantly with time providing it is stored as below. As good industrial practice however it is recommended that it is not stored for periods longer than 2 years.

### Bulk

**Tanks** should be of stainless steel or of mild steel, free of mill-scale or rust and maintained in a rust-free condition. When desired, the latter can be lined with an epoxide resin paint or zinc silicate paint approved for this service. Small tanks must be fitted with silica gel breathers, inspected and regenerated at regular intervals; large tanks (of volumes greater than 1000 m<sup>3</sup>) should be fitted for blanketing with dry nitrogen. Heating facilities may be necessary and where this is the case, care should be taken to ensure that heating coil skin temperatures do not exceed 100°C.

**Lines** should be of stainless steel or mild steel maintained in a rust-free condition. Trace heating may be necessary in cold climates. Hoses should be of polypropylene, stainless steel or wire bound canvas.

### Drums

CARADOL SC48-08 should be stored in dry conditions away from direct sources of heat, preferably in the unopened original containers. Opened drums must be reclosed tightly immediately after drawing-off material.

### HAZARD IDENTIFICATION

Low order of acute toxicity by the oral or percutaneous routes, neither irritating nor sensitising to the skin. Slightly irritating to the eyes.

This product is not in the 'flammable' range, but will burn.

Before handling the product refer to the Safety Data Sheet.

### PRODUCT CODE

U312X

### DISCLAIMER

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Furthermore, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents covering any material or its use.

For further information please contact your local sales representative or visit

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