



# DATASHEET

## CARADOL SA34-05

### URETHANE CHEMICALS FOR FLEXIBLE APPLICATIONS

**U311B**

Revised July 2020

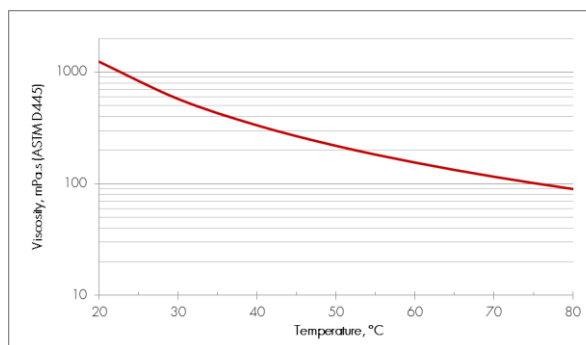
CARADOL SA34-05 is a propylene oxide and ethylene oxide based polyether triol for the production of Flexible polyurethane foams such as High Resilience Slabstock or Cold cure Moulding.

#### TYPICAL PROPERTIES

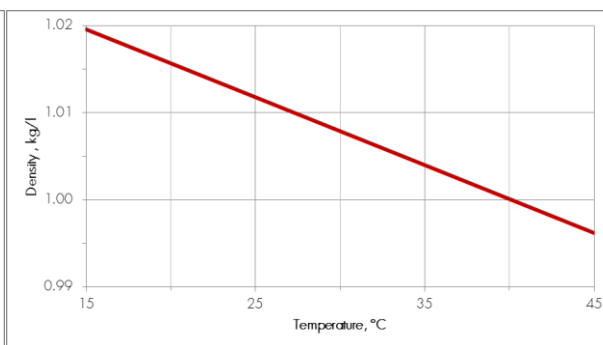
PROPERTY	TEST METHOD	UNIT	VALUE
Appearance			clear liquid
Colour Pt/Co	ASTM 1209		10
Hydroxyl value	ASTM D4274D	mg KOH/g	34
Density at 20°C	ASTM D4052	kg/l	1.02
Water content	ASTM D4672	% m/m	0.03
Total acidity	ASTM D4662	mg KOH/g	0.03
Visco @25 C	ASM D445	MPa.s	860
pH*	SMS 2801		7
Flash point	ASTM D93	°C	> 140

\*Measured in 10:6 IPA/water solution

#### 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 SA34-05

## URETHANE CHEMICALS FOR FLEXIBLE APPLICATIONS

### TEST METHODS

ASTM standards are published by the American Society for Testing and Materials at [www.astm.org](http://www.astm.org). SMS methods (Shell Methods Series) can be obtained through the local Shell company.

### STORAGE AND HANDLING

CARADOL SA34-05 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 SA34-05 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 SA34-05 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 SA34-05 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

Before handling the product refer to the Safety Data Sheet.

### PRODUCT CODE

U311B

### 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

[www.shell.com/chemicals/customer](http://www.shell.com/chemicals/customer)

[www.caradol.com](http://www.caradol.com)

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