



# DATASHEET

## CARADOL ED1 10-30

### URETHANE CHEMICALS FOR CASE APPLICATIONS

U1796  
Revised October 2015

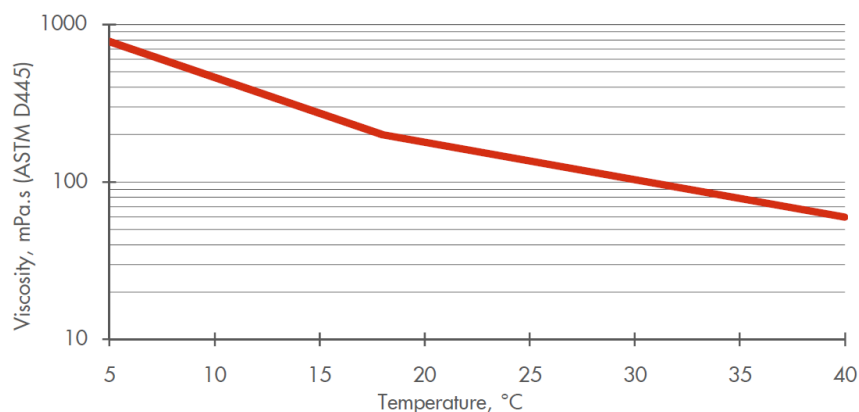
CARADOL ED110-30 is a 1000 molecular weight high purity polyoxypropyleneglycol designed as an intermediate for the production of polyurethane coatings, adhesives, sealants and elastomers. It is manufactured to close specifications ensuring a high degree of consistency, delivered according to high quality standards and can be used to obtain polyurethanes compliant with FDA 21 CFR 175.105, 175.300 and 177.1680. Please consult the full regulation before making any conclusion as to allowed regulated use.

#### TYPICAL PROPERTIES

PROPERTY	TEST METHOD	UNIT	VALUE
Appearance			clear liquid
Colour Hazen	ASTM D1209		15
Hydroxyl value	ASTM D4274D	mg KOH/g	110
Density (20°C)	ASTM D4052	kg/l	1.01
Water content	ASTM D4672	%m/m	0.03
Total acidity	ASTM D4662	mg KOH/g	0.03
Viscosity (25°C)	ASTM D445	mPa.s	150
Potassium and Sodium	SMS1966	ppm	5
pH*	SMS 2801		6
Flash point	ASTM D93	°C	>140

\*Measured in 10:6 IPA/water solution

#### VISCOSITY/TEMPERATURE CHARACTERISTICS



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

# CARADOL ED110-30

## POLYETHER POLYOLS FOR CASE 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 ED110-30 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 ED110-30 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 ED110-30 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 ED110-30 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

U1796

### DISCLAIMER

CARADOL is a Shell trade mark.

The expression 'Shell Chemicals' refers to the companies of the Royal Dutch / Shell Group which are engaged in chemical businesses. Each of the companies which make up the Royal Dutch / Shell Group of companies is an independent entity and has its own separate identity. The information contained in this publication is to the best of our knowledge, true and accurate, but any recommendations or suggestions which may be made are without guarantee, since the conditions of use are beyond our control. 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.caradol.com](http://www.caradol.com)

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