



DATASHEET

CARADOL EP500-11

URETHANE CHEMICALS FOR CASE APPLICATIONS

U1705

Revised September 2018

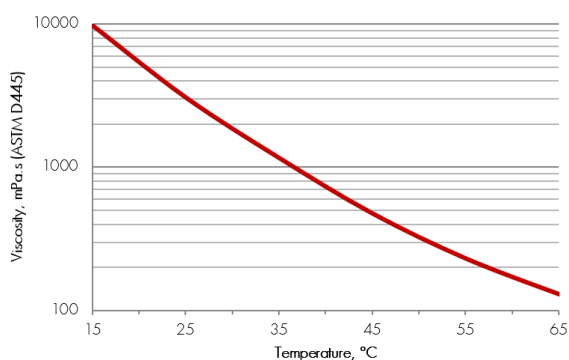
CARADOL EP500-11 is a high functional polyether polyol designed as an intermediate for the production of a wide range of polyurethane coatings, adhesives, sealants and elastomer applications. CARADOL EP500-11 is manufactured to close specifications ensuring a high degree of consistency.

TYPICAL PROPERTIES

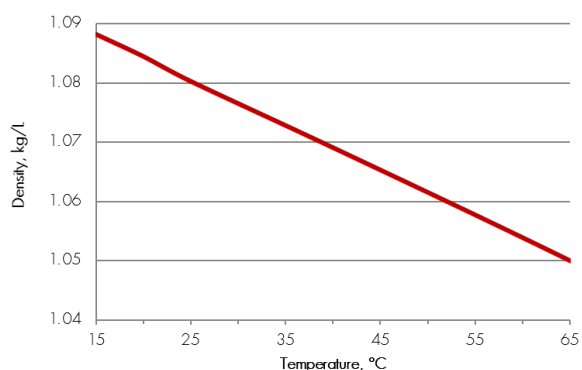
PROPERTY	TEST METHOD	UNIT	VALUE
Appearance			Pale yellow liquid
Hydroxyl value	ASTM D4274D	mg KOH/g	500
Viscosity at 25°C	ASTM D445	mPa.s	3100
Density (20°C)	ASTM D4052	kg/l	1.08
Water content	ASTM D4672	%m/m	0.05
Total acidity	ASTM D4662	mg KOH/g	0.03
Flash point	ASTM D93	°C	>140

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

VISCOSITY/TEMPERATURE CHARACTERISTICS



DENSITY/TEMPERATURE CHARACTERISTICS



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POLYETHER POLYOLS FOR CASE APPLICATIONS

TEST METHODS

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

STORAGE AND HANDLING

CARADOL EP500-11 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 EP500-11 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 40°C and 60°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 EP500-11 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 m³) 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 EP500-11 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

U1705

DISCLAIMER

CARADOL is a Shell trade mark.

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