Bayer MaterialScience

Product Information

SOFTCEL VE-1100

Polyether Polyol

Description

Softcel VE-1100 polyether polyol is a unique polyol for the production of slabstock and molded visco-elastic foam. It provides expanded formulating and processing flexibility and is designed to offer enhanced reactivity and promote cure of high density viscoelastic foams. This allows for the production of a wide range of viscoelastic foam grades with consistent performance properties that can be tailored to end-use applications.

Softcel VE-1100 is typically employed as the primary polyether polyol in TDI based formulations of most standard density and firmness grades of slabstock foams. Firm grades may require an addition of a high solids polymer such as Arcol® HS-100 polymer. Low level addition of a high hydroxyl foam modifier/extender is generally recommended to control foam recover rates. Most other standard chemical intermediates may be employed. Use of a lower functionality MDI such as Mondur® MRS-20 may be beneficial for processing very high density slabstock grades and is recommended for production of molded viscoelastic foam. As with any product, use of Softcel VE-1100 polyol in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

Product Specifications

Property	Value
Hydroxyl Number, mg KOH/g	116 - 124
Water, Wt. % (max)	0.03
Suspended Matter	Substantially free

Typical Properties*

Property	Value
Specific Gravity, at 20°C	1.029
Viscosity at 25°C, cSt	240
Flash Point, PMCC,°C	212
Bulk Density at 20°C, lb/gal	8.59

Storage

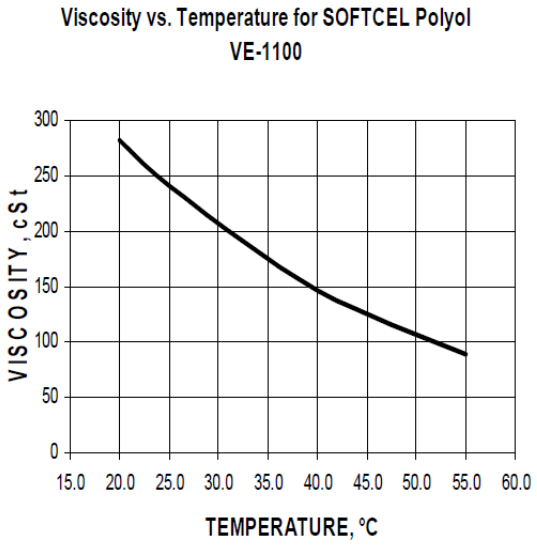
Softcel VE-1100 polyol is slightly hygroscopic and may absorb water. Containers should be kept tightly closed and protected from contamination with moisture and foreign materials, which can adversely affect product quality.

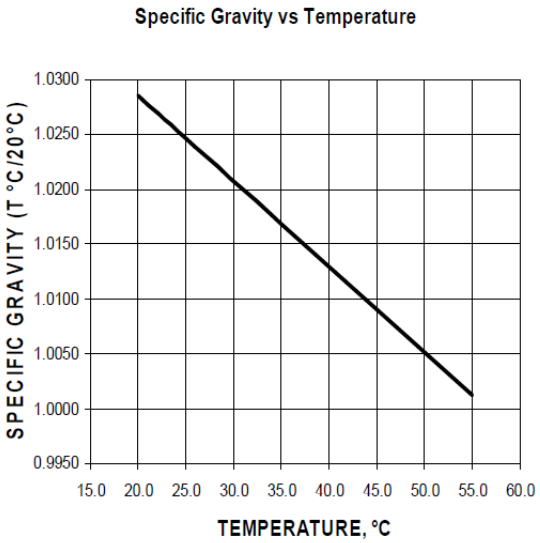
This polyol can become quite viscous at low temperatures. For ease of handling, storage temperatures between 20°C (68°F) and 60°C (140°F) are recommended.

Health And Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling Softcel VE-1100 polyol. Before working with these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., material safety data sheets and product labels. Consult your local Bayer MaterialScience representative or contact Bayer's Product Safety and Regulatory Affairs Department in Pittsburgh, PA.

* *These items are provided as general information only. They are approximate values and are not part of the product specifications.*





¨ Data presented in this chart is derived from a single sample and may vary from the typical properties information, which represents values derived by averaging data from various samples.

This product is not designated as "Medical Grade" and therefore shall not be considered a candidate for the manufacture of a medical device or of intermediate products for medical devices, which are intended under normal use to be brought into direct contact with the patient's body (e.g., skin, body fluids or tissues, including indirect contact to blood). If the intended use of the product is for the manufacture of a medical device or of intermediate products for medical devices, Bayer MaterialScience LLC must be contacted in advance to provide its agreement to sell such product for such purpose. Nonetheless, any determination as to whether a product is appropriate for use in a medical device or intermediate products for medical devices must be made solely by the purchaser of the product without relying upon any representations by Bayer MaterialScience LLC. For further information, please contact bmsmedicalapplication@bayer.com.*

**Please see the "Guidance on Use of Bayer MaterialScience Products in a Medical Application" document which can be located at baycareonline.com*

Note: The information contained in this bulletin is current as of September 2012, please contact Bayer MaterialScience to determine whether this publication has been revised.

Bayer MaterialScience LLC

100 Bayer Road • Pittsburgh, PA 15205-9741 • Phone: 1-800-662-2927 • www.bayermaterialsciencenafta.com

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract o otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.