



ULTRACEL™ U3000

Polyether Polyol

Description

Ultracel U3000 (U-3000) polyol is a stable 10% SAN-solids dispersion in a high molecular weight reactive base polyol. It is used in the production of high support (HS) and high resilience (HR) flexible slabstock foam having excellent comfort and durability and good physical properties. The primary applications are in premium quality furniture and mattresses.

Ultracel U3000 produces very stable, yet shrink resistant, HS-HR foam that is easy to crush. It can be processed over a wide range of water levels and isocyanate indexes and in combination with varying amounts of high solids polymer polyols such as Arcol® HS-100 or Hyperlite® E-850. This provides unsurpassed flexibility for producing a wide range of foam grades of excellent quality. It can also be formulated with various foam modifiers, FRs, softening agents, and other additives to yield foams with unique performance features for specialized applications (supersoft cushion wrap, latex replacement, CMHR, etc.).

As with any product, use of the Ultracel U3000 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	30.0 ± 2.0
Water, Wt. % (max)	0.06%
Suspended Matter	Substantially Free

Typical Properties*

Property	Value
Specific Gravity, 20/20°C	1.04
Bulk Density at 20°C, lb/gal	8.67
Viscosity at 25°C, cSt	1700
Flash Point – PMCC, °C	220
Appearance	White, viscous liquid

Storage

Ultracel U3000 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 processing.

This product 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 Ultracel U3000. Before working with this product, you must read and become familiar with the available information on its hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., material safety data sheets and product labels. For further information contact your Bayer MaterialScience representative or the 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.

Note: The information contained in this bulletin is current as of November 2006. Please contact Bayer MaterialScience to determine whether this publication has been revised.

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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. 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 or 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 patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.

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