



ARCOL[®] UHS-150

Polyether Polymer Polyol

Product Code: KLUHS150

Description

Arcol UHS-150 polymer polyol is a premium “high solids white” polymer polyol for increasing the load-bearing capacity of slabstock foams. It is essentially equivalent to the widely used Arcol HS-100 polyol except for higher solids content and higher viscosity. Arcol UHS-150 will give comparable load building in polyurethane foams when used at about 90% of the level of Arcol HS-100 or it will provide about 10% more load building when employed at the same level. Potential users need to be equipped to handle the higher viscosity of this product.

Test data for bench foams (2.4 pcf) made with 100% of Arcol UHS-150 and 100% of Arcol HS-100 are provided on the following page.

As with any product, use of Arcol UHS-150 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	25.5 ± 2.0
Water, Wt. % (max)	0.06%
Suspended Matter	Substantially Free

Typical Properties*

Property	Value
Specific Gravity at 20°C	1.05
Bulk Density at 20°C, lb/gal	8.76
Viscosity at 25°C, cks	4,700
Flash Point, PMCC, °C	Approx. 220

Storage

Arcol UHS-150 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 polyol can become quite viscous at low temperatures. For ease of handling, storage temperatures between 20°C - 60°C (68°F -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 the Arcol UHS-150 polyol. 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.

Bench Foam Property Comparison UHS-150 vs. HS-100

Formulation	php	php
Arcol UHS-150	100	
Arcol HS-100		100
Water	2.3	2.3
A-1 amine catalyst	0.03	0.03
T-9 tin catalyst	0.1	0.1
L-620 Silicone	0.45	0.45
Mondur®TD-80 Isocyanate	30.1	30.6
(Index)	(115)	(115)

Foam Properties		
Density, pcf	2.44	2.43
Air flow, scfpm	1.60	1.75
25% IFD, lbs.	165	149
65% IFD, lbs.	358	316
25% IFD Return, %	58.2	61.7
65% IFD / 25% IFD	2.17	2.11
Tensile, psi	37.1	32.9
Elongation, %	94	92
95% Compression Set, %	13.1	8.3

Note: The information contained in this bulletin is current as of March 2004. Please contact Bayer MaterialScience to determine whether this publication has been revised.

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