Bayer MaterialScience

Product Information

# ACCLAIM® 4220N

## *Polyether Polyol*

***CAS No. 53637-25-5***

Product Code: **KL4220N**

### Description

Acclaim 4220N polyol is a 4,000-molecular-weight diol based on propylene oxide and ethylene oxide. This high-performance, low-monol polyether is prepared with Bayer's proprietary IMPACT® technology, using a patented organo-metallic propoxylation catalyst. The terminal end-groups have a high percentage of primary hydroxyl end-groups giving a relatively high reactivity with isocyanates. Because this product is *not* acidified, care must be taken using it in isocyanate-terminated prepolymers.

Acclaim 4220N polyol is used in polyurethane and other urethane applications, including cast elastomers, sealants, adhesives, epoxy flexibilizers, defoamers, reaction injection molding (RIM), lubricants, crude oil de-emulsifiers, and plasticizers. As with any product, the use of Acclaim 4220N 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 | 26.5–29.5 |
| Water, Wt. % (max) | 0.05 |
| Acid Number, mg KOH/g (max) | 0.015 |
| Color, Pt•Co (max) | 150 |

### Typical Properties*

| Property | Value |
|---|---|
| Appearance | Clear, viscous liquid |
| Specific Gravity at 25°C | 1.02 |
| Viscosity at 25°C, cps | 860 |
| Flash Point, PMCC, °C | 182 |
| Bulk Density, lb/gal | 8.59 |

Acclaim 4220N polyol is a complementary product to Acclaim 6320N polyol, an ultra-low monol ethylene-oxide capped triol with the same equivalent weight. Overall polyol functionality can easily be varied by blending these two polyols. Acclaim 4220N polyol should be acidified prior to use in prepolymer applications

This polyol contains extremely low levels of monol. In some polyurethane systems, formulation changes, such as reducing the cross-linking level or changing the hard-segment content, may be necessary to maximize the benefits of using Acclaim polyols. For additional information, contact your Bayer MaterialScience LLC representative.

### Storage

Acclaim 4220N 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.

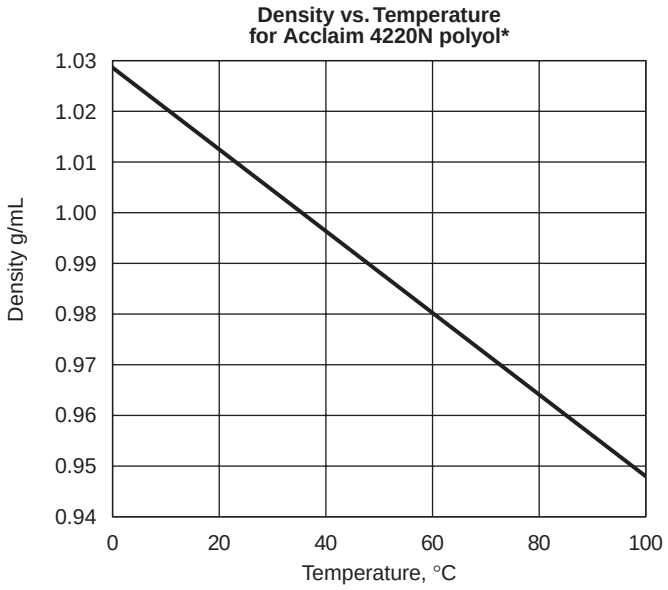
This polyol can become quite viscous at low temperatures. For ease of handling, storage temperatures between ambient room temperature and 60°C (140°F) are recommended.

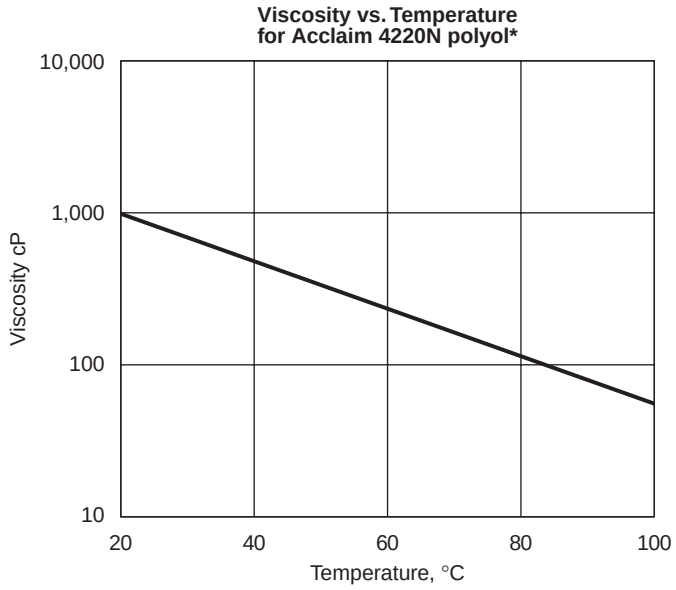
### Health and Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling Acclaim 4220N 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. Consult your Bayer MaterialScience LLC representative or contact Bayer's Product Safety and Regulatory Affairs Department in Pittsburgh, Pa.

Note: The information contained in this bulletin is current as of January 2003. Please contact Bayer MaterialScience LLC to determine whether this publication has been revised.

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




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

**Bayer MaterialScience LLC**

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