

Acclaim[®] 4220N

Characterization

Acclaim 4220N polyol is a 4,000-molecular-weight diol based on propylene oxide and ethylene oxide.

Specification Property	Value	Unit of measurement
Hydroxyl number	26.5 - 29.5	mg KOH/g
Water, Wt.	max. 0.034	%
Acid number	max. 0.015	mg KOH/g
Color	max. 150	Pt•Co
Alkalinity	0.2000	mEq/kg
Absence of suspended matter	PASS	
Unsaturation	max. 0.010	mEq/g

Other data* Property	Value	Unit of measurement	Method
Appearance	Clear, viscous liquid		
Specific gravity at 25°C	1.02		
Viscosity at 25°C	860	cps	
Flash point (PMCC)	182	°C	
Bulk density	8.59	lb/gal	

*These values provide general information and are not part of the product specification.

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Properties / Applications

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 Covestro'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.

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.

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 15°C (59°F) and 60°C (140°F) are recommended.

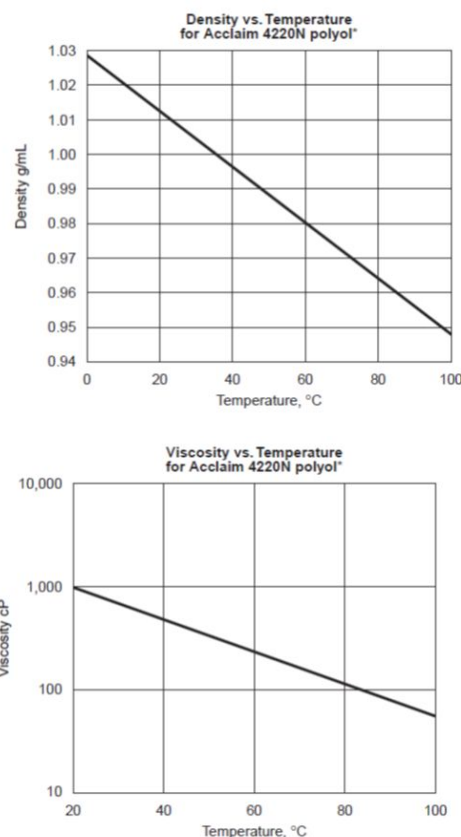
The shelf life is twelve months after receipt of material by customer, when stored in sealed original containers under conditions stated above.

Health and Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling this product. Before working with this product, you must read and become familiar with the available information on its risks, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., safety data sheets and product labels. For further information contact your Covestro LLC representative or the Product Safety and Regulatory Affairs Department in Pittsburgh, PA.

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Charts/tables/graphs



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.

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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, Covestro LLC must be contacted in advance, in writing, 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 Covestro LLC. For further information, please see the "Guidance on Use of Covestro Products in a Medical Application" document which can be located at www.productsafetyfirst.covestro.com

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