Acclaim® 4200

Characterization	Acclaim 4200 polyol is a 4,000-molecular-weight diol based on propylene oxide.

Specification

Property	Value	Unit of measurement	Method
Hydroxyl number	26.5 - 29.5	mg KOH/g	
Water, Wt.	max. 0.03	%	
Acid number	max. 0.02	mg KOH/g	
Color	max. 50	Pt•Co	

Other data*

Property	Value	Unit of measurement	Method
Appearance	Clear, viscous liquid		
Specific gravity at 20°C	1.01		
Viscosity at 25°C	980	cps	
Flash point (PMCC)	213	°C	
Bulk density	8.40	lb/gal	

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

Document contains important information and must be read in its entirety.

Edition 2016-02-04

Replaces edition dated 2014-12-15

Acclaim®

Product Datasheet

Acclaim® 4200

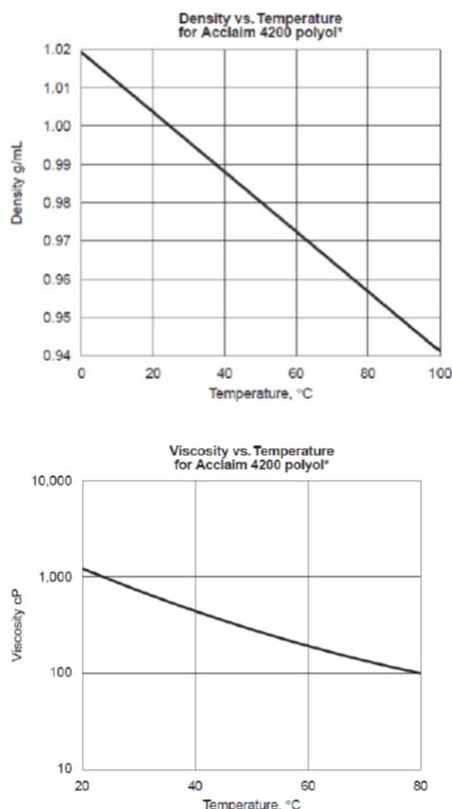|	
Properties / Applications	Acclaim 4200 polyol is a high-performance, low-monol polyether that is prepared with Covestro's proprietary IMPACT™ technology, using a patented organo-metallic propoxylation catalyst. The terminal end-groups are predominantly secondary hydroxyls and have a relatively low reactivity. This polyol is acidified with a low level of phosphoric acid, making it suitable for use in isocyanate-terminated prepolymers.
	Acclaim 4200 polyol is used in polyurethane and other applications, including cast elastomers, sealants, epoxy flexibilizers, defoamers, lubricants, crude oil de-emulsifiers and plasticizers. Acclaim 4200 polyol is a complementary product to Acclaim 6300 polyol, an ultra-low monol triol with the same equivalent weight. Overall polyol functionality can easily be varied by blending these two polyols.
	This polyol contains extremely low levels of monol. In some polyurethane systems, formulation changes, such as reducing the crosslinking level or changing the hard-segment content, may be necessary to maximize the benefits of using Acclaim polyols. As with any product, use of Acclaim 4200 polyol in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.
Storage	Acclaim 4200 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

Density vs. Temperature for Acclaim 4200 polyol*

Density g/mL vs. Temperature, °C

Viscosity vs. Temperature for Acclaim 4200 polyol*

Viscosity cP vs. Temperature, °C

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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