

# Multranol<sup>®</sup> 4050

## Characterization

Multranol 4050 is a 360-molecular-weight amine-based tetrafunctional polyether polyol.

Specification Property	Value	Unit of measurement	Method
Hydroxyl number	600 - 660	mg KOH/g	
Water	max. 0.10	Wt. %	
Color, Gardner	max. 6		
Viscosity at 25°C	16,000 - 20,000	mPa•s	

## Other data\*

Property	Value	Unit of measurement	Method
Appearance	Amber, viscous liquid		
Specific gravity at 25°C	1.02		
Flash point PMCC	196	°C	
Bulk density at 25°C	8.51	lb/gal	

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

## Properties / Applications

Multranol 4050 is a 360-molecular-weight amine-based tetrafunctional polyether polyol, which is primarily used to manufacture rigid polyurethane foams. As with any product, use of Multranol 4050 in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

## Storage

Multranol 4050 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.

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

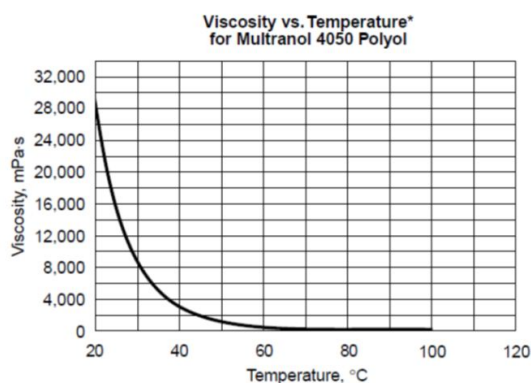
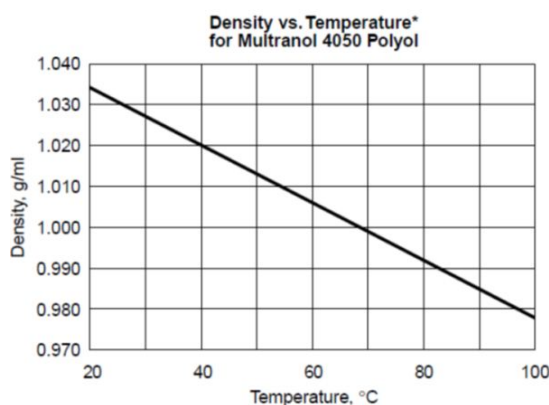
## Health and Safety Information

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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## Tables/Charts/Graphs

*\*Data presented in these charts are 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](http://www.productsafetyfirst.covestro.com)

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