

NeoRez[®] R-4000

Characterization

NeoRez[®] R-4000 is an aliphatic urethane designed for give a high mechanical/chemical resistances for flexible packaging market.

Form supplied

Form supplied is approximately 35% in water

Specification

Property	Value	Unit of measurement	Method
Appearance	Semi transparent straw coloured		GAP0059
Free monomer	max. 1000	ppm	GAP0118
pH	8 - 9,5		GAP0016
Solids	34 - 36	%	GAP0001
Viscosity	<= 200	mPa·s	GAP0020

Other data*

Property	Value	Unit of measurement	Method
Density at 20°C	+/- 1,03	g/cm ³	GAP-0006
Neutralizing agent - Triethylamine	+/- 1,2	%	

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

Properties / Applications

NeoRez[®] R-4000 provides high chemical / mechanical resistances in 1K and can be cross-linked with suitable isocyanates for 2K applications.

Solubility / thinnability

NeoRez[®] R-4000 can be thinned with water.

Storage

The resin should be stored indoors in original, unopened and undamaged container in a dry place at storage temperature between 5- 40 °C. Exposure to direct sunlight should be avoided.

Storage time

Covestro represents that, for a period of 6 months (180 days) following the day of shipment as stated in the respective transport documents, the product will meet the specifications or values set forth in section "specifications or characteristic data" above, what ever is applicable, provided that the product is stored in full compliance with the storage conditions set forth in and referenced under section "storage" above and is otherwise handled appropriately. The lapse of the 6 months (180 days) period does not necessarily mean that the product no longer meets specifications or the set values. However, prior to

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using said product, Covestro recommends to test such a product if it still meets the specifications or the set values. Covestro does not make any representation regarding the product after the lapse of the 6 months (180 days) period and Covestro shall not be responsible or liable in any way for the product failing to meet specifications or the set values after the lapse of the 6 months (180 days) period.

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance, information and recommendations to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by Covestro. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.

This product is not designated for the manufacture of a medical device or of intermediate products for medical devices¹⁾. [This product is also not designated for other specifically regulated applications (e.g. including cosmetics, plant protection, fertilisers, plant strengtheners, food processing, food contact and others). If the intended use of the product is for the manufacture of a medical device or of intermediate products for medical devices or for other specifically regulated applications Covestro must be contacted in advance 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, for Food Contact products or cosmetic applications must be made solely by the purchaser of the product without relying upon any representations by Covestro.

1) Please see the "Guidance on Use of Covestro Products in a Medical Application" document.

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Covestro Deutschland AG
Kaiser-Wilhelm-Allee 60
51373 Leverkusen, Germany
www.covestro.com

Contact:
CAS Single Point of Contact EMEA
e-mail: cas_spoc_emea@covestro.com