

Desmophen® 2028I

Characterization

Desmophen® 2028I is a linear polyester produced from adipic acid and glycols (hexane diol-1,6 and neopentyl glycol). The product has terminal hydroxyl groups and an average molecular weight of approx. 2,000. At room temperature Desmophen® 2028I is a slightly coloured, solid to highly viscous substance, which liquifies at temperatures above 30 °C. Desmophen® 2028I is used, among other things, to manufacture polyurethanes.

Sampling

Before taking samples, the product should be heated to approx. 60 °C and homogenised by stirring. Moisture access should be prevented when taking product samples.

Specification

Property	Value	Unit of measurement	Method
Hydroxyl number	56 ± 5	mg KOH/g	DIN EN ISO 4629-2
Acid value	≤ 1.0	mg KOH/g	ISO 2114
Viscosity 75 °C	630 ± 65	mPa·s	ISO 3219/B
Iodine color value	≤ 3		EN 1557

Other data*

Property	Value	Unit of measurement	Method
Water content	0.03	% by wt.	DIN 51777/1
Density 75 °C	1.06	g/cm ³	DIN 51757
Density 125 °C	1.02	g/cm ³	DIN 51757
Viscosity 125 °C	approx. 140	mPa·s	ISO 3219/B
Pour point	approx. 18	°C	ISO 3016

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

Desmophen[®] 2028I

Packaging

Desmophen[®] 2028I is supplied in two forms:

- as a solidified product in metal drums, net weight 60 kg
- as a liquid in road tankers, temperature on delivery approx. 80 - 95 °C.

Storage

Storage in original sealed Covestro container or steel tanks.

Recommended storage temperature: Drum delivery : < 30 °C //
Tanker delivery: 60 - 70 °C.

Protect from moisture, heat and foreign material.

General information: Desmophen[®] 2028I is hygroscopic and should therefore be stored in sealed, moisture-tight drums. Prolonged exposure to moisture can harm the product.

Storage time

Covestro represents that, for a period of **six months (drum delivery)** and **4 weeks (tanker delivery)** 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 period does not necessarily mean that the product no longer meets specifications or the set values. However, prior to 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 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 period.

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Labeling and statutory requirements This product data sheet is only valid in conjunction with the latest edition of the corresponding Safety Data Sheet. Any updating of safety-relevant information – in accordance with statutory requirements – will only be reflected in the Safety Data Sheet, copies of which will be revised and distributed. Information relating to the current classification and labeling, applications and processing methods and further data relevant to safety can be found in the currently **valid Safety Data Sheet**.

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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