

Introduction and
applicationSpecifications
Indications
general of
process

DESMODUR®44V20L

DESMODUR®44V20L is a dark brown liquid mixture of 4,4'-diphenylmethane diisocyanate (MDI) with high-functional isomers and homologues. It is used together with polyols for the manufacture of polyurethane foams.

DESMODUR isocyanate component®44V20L:

* Appearance	25°C	brown liquid		
* Density	20°C	approx. 1.23	g/cm ³	LPUR-050
Goo	25°C	160 - 240	mPas*s	MDI-01-02
NCO content		30.5 - 32.5	%	MDI-01-01
Acidity		max. 200	ppm HCl	MDI-01-03

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

Access to moisture should be avoided when sampling the product.

Storage and handling

The recommended storage temperature is +10 to +30°C (in exceptional cases up to 50°C). Keep the container tightly closed in a cool, well-ventilated place.

Under these conditions, the shelf life of the product is 6 months after the delivery date, if stored in sealed, moisture-tight containers.

At temperatures below 0°C, DESMODUR ® 44V20L can partially crystallize. By carefully heating, as briefly as possible, the entire contents of the drum to max. 70°C, the product liquefies again, making it possible to increase its solids content. Care must be taken to ensure that containers, including empty drums, are always hermetically closed. Above all, they must be kept free of moisture, since the reaction with DESMODUR ® 44V20L forms polyureas, releasing carbon dioxide. Consequently, during the storage, transfer and handling of DESMODUR ® 44V20L, the entry of any of its forms must be excluded (wet containers, solvents containing water, humid air) since otherwise the carbon dioxide produced could give rise to a dangerous increase in pressure inside the containers. Furthermore, the polyureas that form inside DESMODUR ® 44V20L can cause eventual sedimentation of solids that can result in clogging and breakdowns in the filters, pumps and pipes of the foaming plant.

Security instructions

When working with liquid polyols, isocyanates and/or additives, wear appropriate safety equipment based on the potential health risks. Also, avoid

DESMODUR®44V20L

direct skin contact with newly manufactured polyurethane products, for example, when handling or processing them directly after demolding. For more detailed information, please refer to the safety data sheets of the processed components.

REACH labeling and applications

This technical sheet is only valid together with the latest edition of the corresponding safety data sheet. Any updates to safety-relevant information - in accordance with legal requirements - will only be reflected in the Safety Data Sheet which will be reviewed and distributed. Information regarding current classification and labeling, applications and processing methods, as well as other safety-relevant data, can be found in the currently processed safety data sheet.

How you use and the purpose for which you use our products, technical support and information (whether verbal, written or through production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical support, information and recommendations to determine to your own satisfaction whether our products, technical support and information are suitable for your intended uses and applications. This application-specific analysis should include at least testing to determine suitability from a technical as well as health, safety and environmental perspective. These tests have not necessarily been carried out by PLIXXENT. Unless otherwise agreed in writing, all products are sold strictly in accordance with the terms of our standard conditions of sale which are available on request. All information and technical support is given without warranty and is subject to change without notice. It is expressly understood and agreed that you assume and expressly release us from all liability, tort, contractual or otherwise, incurred in connection with the use of our products, technical support and information. Any statement or recommendation not contained herein is unauthorized and does not bind us. Nothing herein shall be construed as a recommendation for the use of any product that conflicts with any claim of any patent relating to any material or its use. No license is granted by implication or fact under the claims of any patent.

This product is not designated as "medical grade" and therefore will not be considered a candidate for the manufacture of a medical device or medical device intermediates, which are intended, under normal conditions of use, to come into contact direct contact with the patient's body (for example, skin, body fluids or tissues, including indirect contact with blood). This product is also not designed for contact with food, including drinking water, nor for cosmetic applications (as defined in EU Commission Regulation 1935/2004). If the intended use of the product is for the manufacture of a medical device or intermediate products for medical devices, for products in contact with food or for cosmetic applications, PLIXXENT must be contacted in advance to give its approval to the sale of said product. to this end. However, any determination as to whether a product is appropriate for use in a medical device or medical device intermediates, for food contact products, or cosmetic applications should be made solely by the purchaser of the product without reliance on any representation of PLIXXENT".

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