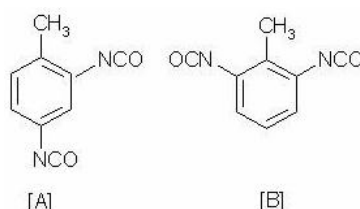


DESMODUR[®] T 80 - for flexible foams

General Properties and Applications

Desmodur[®] T 80 is a mixture of the two isomeric forms 2,4-toluene diisocyanate [A] and 2,6-toluene diisocyanate [B] in the ratio 80:20.

Desmodur[®] T 80 is used for the production of polyurethanes.



Sampling

The access of moisture in any form must be prevented.

Specification

Property	Value	Unit of measurement	Method
Purity	≥ 99.5	% by wt.	TDI-01-01
2,4-isomer content	79.5 - 81.5	% by wt.	TDI-01-04
Hydrolysable chlorine	≤ 100	mg/kg	TDI-01-03
Acidity	≤ 40	mg/kg	TDI-01-02

Other Data*

Property	Value	Unit of measurement	Method
Appearance	Colourless to pale liquid		DIN ISO 6271
Density 25 °C	approx. 1.22	g/cm ³	DIN 51757
Viscosity 25 °C	approx. 3	mPa·s	DIN 53015
NCO content	min. 48	% by wt.	DIN 53185
Freezing point	approx. 13	°C	DIN 53175
Flash point	127	°C	DIN 51758

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

DESMODUR[®] T 80 - for flexible foams

Packaging Storage

- Storage in original sealed Bayer MaterialScience container.
- Recommended storage temperature: 18 - 40°C.
- Protect from moisture, heat and foreign material.

General information:

The product is sensitive to moisture and heat. It should be protected against contact with atmospheric moisture. Higher storage temperatures for prolonged periods may result in discoloration or the formation of insoluble deposits. The product crystallizes at temperatures below 18°C. However, careful melting at up to 50°C will reliquify the product without any detrimental effect on its quality. The contact surface temperature may not exceed 80°C. The reliquified product must be homogenized as crystallisation causes a shift in the isomer ratio between the crystalline and the still liquid phases.

Opened containers must be resealed after removing product. If stored for long periods, the product should be overlaid with nitrogen. The product reacts with water to release carbon dioxide. During storage, transfer and handling of the product, contact with water in any form (damp containers, solvents containing water, moist air) must be prevented as the generation of carbon dioxide may result in a dangerous increase in pressure. The polyureas which are formed at the same time may result in turbidity. They may also cause blockages and breakdowns in filters, pumps and pipes.

Storage time:

Bayer MaterialScience represents that, for a period of twelve months 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 twelve months period does not necessarily mean that the product no longer meets specifications or the set values. However, prior to using said product, Bayer MaterialScience recommends testing such a product if it still meets the specifications or the set values. Bayer MaterialScience does not make any representation regarding the product after the lapse of the twelve months period and Bayer MaterialScience 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 twelve months period.

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Labeling and REACH applications

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.

Directions for Processing

Recommended temperature for processing (°C): 20 - 25.

This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery.

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, Bayer MaterialScience AG 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 must be made solely by the purchaser of the product without relying upon any representations by Bayer MaterialScience AG. * Please see the "Guidance on Use of Bayer MaterialScience Products in a Medical Application" document. In case of questions, please contact: productsafety@bayerbms.com

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 **DESMODUR[®]**

Product Datasheet