Desmodur® N 3900

Characterization	Low-viscosity, aliphatic polyisocyanate resin based on hexamethylene diisocyanate. As the hardener for weather-stable coating systems.
Form supplied	100 %

Specification

Property	Value	Unit of measurement	Method
NCO content	23.5 ± 0.5	% by wt.	DIN EN ISO 11 909
Viscosity at 23 °C	730 ± 100	mPa·s	DIN EN ISO 3219/A.3
Hazen color value	≤ 40		DIN EN 1557
Monomeric HDI	< 0.3	%	DIN EN ISO 10 283

Other data*

Property	Value	Unit of measurement	Method
Equivalent weight	approx. 179		
Flash point	approx. 203	°C	DIN EN 22 719
Density	approx. 1.15	g/cm^3	DIN EN ISO 2811

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

Desmodur® N 3900

Solubility / thinnability	Desmodur® N 3900 is compatible with the following solvents: ethyl acetate, butyl acetate, 1-methoxypropylacetate-2, acetone, methyl ethyl ketone, methyl isobutyl ketone, cyclohexanone, toluene, xylene, solvent naphtha® 100 and mixtures thereof. Aliphatic hydrocarbons are not suitable as solvents. Desmodur® N 3900 should not be thinned to below a solids content of 40 % by wt. Prolonged storage of a solution with a lower solids content may result in turbidity and sedimentation.
Compatibility	Desmodur® N 3900 can be mixed with the following Desmodur® and Desmophen® products: Desmodur® N 75, N 100, N 3200, N 3300, N 3390, N 3400, N 3600 and Z 4470; most polyester-based Desmophen® products such as Desmophen® 670, 680, VP LS 2971, VP LS 2089 and VP LS 2107; Desmophen® A products (acrylates). It is incompatible with Desmophen® 650 and 651.
Properties / Applications	Desmodur® N 3900 is used to formulate high-solids systems for automotive refinishing, transportation coating and plastics coating.

Desmodur® N 3900

Storage

- Storage in original sealed Bayer MaterialScience container.

- Recommended storage temperature: 0 - 30 °C.

- Protect from moisture, heat and foreign material.

General information: The product is sensitive to moisture. Storage at higher temperatures will result in increase of color and viscosity. Storage at significant lower temperatures will result in solidification. This solidification is reversible by briefly heating the product without adversely affecting the quality of the product.

Storage time

Bayer MaterialScience represents that, for a period of six 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 six 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 to test 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 six 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 six months period

Desmodur® N 3900

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**.
Further information	The product is used mainly as a hardener in coating materials or adhesives. The handling of coating materials or adhesives containing reactive polyisocyanates and residual **monomeric HDI** requires appropriate protective measures referred to in the safety data sheet. These products may therefore be used only in industrial or trade applications. **They are not suitable for use in homeworker (DIY) applications.**

This product is not designated as „Medical Grade"1 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)*. This product is also not designated for Food Contact2, including drinking water, or cosmetic applications. If the intended use of the product is for the manufacture of a medical device or of intermediate products for medical devices, for Food Contact products or cosmetic applications Bayer MaterialScience 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 Bayer MaterialScience. 1) Please see the "Guidance on Use of Bayer MaterialScience Products in a Medical Application" document. 2) As defined in Commission Regulation (EU) 1935/2004.

Editor: Coatings, Adhesives & Specialties
Bayer MaterialScience AG
D-51368 Leverkusen, Germany
www.bayercoatings.com

Contact:
Grahl, Michael
Tel. +49 214 / 30-72203