

VESTANAT[®] B 1186 A**GENERAL DESCRIPTION**

VESTANAT[®] B 1186 A is a caprolactam blocked cycloaliphatic polyisocyanate. It is supplied as a 60 % by wt. solution in solvent naphtha.

SPECIFICATION

Property	Value	Unit	Test method
Non volatile matter	60 ± 1	% by wt.	DIN EN ISO 3251 (1,5 h 110 °C, < 2 hPa)
Viscosity at 23 °C	1200 ± 600	mPa·s	DIN EN ISO 3219

TYPICAL DATA

Property	Value	Unit	Test method
Free NCO Content	< 0.1	% by wt.	DIN EN ISO 11 909 / ASTM D 2572
Latent NCO content	approx. 7.1	% by wt.	DIN EN ISO 11 909 (modified)
Splitting temperature	150	°C	-
Colour (Hazen)	≤ 150	mg Pt/l	DIN EN ISO 6271

PROPERTIES AND APPLICATIONS

Blocked polyisocyanate for the combination with suitable hydroxyl functional resins for direct food contact*.

VESTANAT® B 1186 A enables the formulation of heat curing PUR coatings for curing temperatures of ≥ 150 °C with a low yellowing tendency during the curing process.

The use of tin-catalysts, e.g. dibutyl-tin-dilaurate (DBTDL) in concentrations of 0.1 - 0.5 % by wt. on solid resin, is recommended.

CURING CONDITIONS

The data in the following table were determined in a circulating air drying oven using aluminium panels with 0.8 mm thickness and a DBTDL concentration of 0.5 % calculated on solid resin (OH/NCO 1:1).

System	Stoving times in minutes at an oven temperature of			
	150 °C	160 °C	180 °C	200 °C
VESTANAT® B 1186 A / polyester (2.5 – 4.0 % OH)	30	20	5	3.5
VESTANAT® B 1186 A / acrylate (2.5 – 4.0 % OH)	30	20	5.5	3.5

STORAGE AND PACKAGING

VESTANAT® B 1186 A can be stored in unopened containers for at least one year without loss of quality in accordance with the above specifications.

VESTANAT® B 1186 A is supplied in 25 kg non returnable cans and in 200 kg non returnable drums.

*Restrictions and conditions of use as described in FCN-No.: 1268 must be taken into account to ensure compliance.

SAFETY AND HANDLING

Please refer to our Material Safety Data Sheet.

Marl, November 30, 2021; This data sheet replaces all former issues.

VESTANAT® is a registered trademark of Evonik Industrie AG or one of its subsidiaries.

Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

EVONIK OPERATIONS GMBH

Business Line Crosslinkers
Paul-Baumann-Str. 1
45764 Marl
Germany

www.evonik.com/crosslinkers

For contact in your country, please visit: www.evonik.com/crosslinkers-contact

EVONIK CORPORATION

Business Line Crosslinkers
299 Jefferson Road,
Parsippany, NJ 07054-0677
USA

EVONIK SPECIALTY CHEMICALS (SHANGHAI) CO., LTD.

Business Line Crosslinkers
55, Chundong Road
Xinzhuang Industry Park
Shanghai, 201108
China

