Product information

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

EVONIK
Leading Beyond Chemistry

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.

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

EVONIK CORPORATION
Business Line Crosslinkers
299 Jefferson Road,
Parsipanny, NJ 07054-0677
USA

EVONIK SPECIALTY CHEMICALS (SHANGHAI) CO., LTD.
Business Line Crosslinkers
55, Chundong Road
Xinzhuang Industry Park
Shanghai, 201108
China

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