

Desmodur® eco BL 7175.

High performance enabled by nature: partly bio-based thermally activated polyurethane.



Desmodur® eco BL 7175



Product Data Desmodur® eco BL 7175 Supply form (%) Viscosity (mPas) NCO-content (%) Renewable content (%) approx. 75 approx. 8.500 approx. 10.9 approx. 32

	Desmodur® eco BL 7175**	Desmodur® PL 350**
T-bend cracks/ adhesion aluminium	0,5 T / 0 T	0,5 T / 0 T
König hardness	188	176
Pencil hardness	2Н	Н
Thermal yellowing	Good thermal yellowing resistance (approx. b*value: -0.2)	

- * 14C measurement according to ASTM-D6866 standard
- ** Since April 1, the DSM Resin Business Unit is part of Covestro: this series uses the optimal coil polyester Uralac SN844 S2G3-60 ND in a standard white formulation



Covestro Deutschland AG Kaiser-Wilhelm-Allee 60 51373 Leverkusen Germany

solutions.covestro.com info@covestro.com

The challenge – High performing 1K stoving system with a positive impact on the environment.

Companies across different industries are increasingly embedding sustainability as a pillar in their strategies. The purchase of raw materials is an area already having a positive impact, switching from petro-based to alternative building blocks, which contribute to a more circular approach.

Although bio-based polyesters for 1K stoving systems are available in the market, the limiting factor to maximize the biocontent of the system, while delivering high performance has been the thermally activated polyurethane hardener.

The solution - Desmodur® eco BL 7175.

Covestro has released **Desmodur® eco BL 7175**, a thermally activated polyurethane hardener based on pentamethylene diisocyanate (PDI). This product can contribute to the renewable content of the stoving systems, with an increased performance in comparison to standard hexamethylene diisocyanate (HDI) based grades.

Key benefits.

- Partly bio-based thermally activated polyurethane hardener in the market
- Approx. 32% renewable carbon content* derived from non-fossil-based inputs, the biomass source is mainly starch from non-edible plants (field corn)
- Significantly reduced carbon footprint compared to HDI derivatives
- Near drop-in for HDI-based trimers i.e. low reformulation requirement
- Slightly higher performance than standards as HDI derivatives (see comparison table)

Applications.

Coatings (e.g. coil, can, general industrial) – can be potentially used wherever blocked HDI trimers are used.

 $The \, manner \, in \, which \, you \, use \, our \, products, \, technical \, assistance \, and \, information \, (whether \, verbal, \, written \, and \, written \, and \, (whether \, verbal, \, written \, and \, written \, and \, (whether \, verbal, \, written \, and \, written \, and \, (whether \, verbal, \, written \, and \, written \, and \, (whether \, verbal, \, written \, and \, written \, and \, (whether \, verbal, \, written \, and \, written \, and \, (whether \, verbal, \, written \, and \, written \, and \, (whether \, verbal, \, written \, and \, written \, and \, (whether \, verbal, \, written \, and \, written \, and \, (whether \, verbal, \, written \, and \, written \, and \, (whether \, verbal, \, written \, and \, written \, and \, (whether \, verbal, \, written \, and \, written \, and \, (whether \, verbal, \, written \, and \, written \, and \, (whether \, verbal, \, written \, and \, written \, and \, (whether \, verbal, \, written \, and \, written \, and \, (whether \, verbal, \, written \, and \, written \, and \, (whether \, verbal, \, written \, and \, (whether \, verbal, \, written \, and \, (whether \, verbal, \, written \, and \, (whether \, ve$ or by way of production evaluations), including any suggested formulations and recommendations, is beyond our control. Therefore, it is imperative that you test our products to determine suitability for your processing and intended uses. Your analysis must at least include testing to determine suitability from a technical, health, safety, and environmental and regulatory standpoint. Such testing has not necessarily been done by Covestro, and Covestro has not obtained any approvals or licenses for a particular use or $application of the product, unless explicitly stated otherwise. {\tt [EMEA] only: If the intended use of the product of the pr$ is for the manufacture of a pharmaceutical/medicinal product, medical device1 or of pre-cursor products for medical devices or for other specifically regulated applications which lead or may lead to a regulatory obligation of Covestro, Covestro must explicitly agree to such application before the sale.] Any samples provided by Covestro are for testing purposes only and not for commercial use. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information, including technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed by you that you assume and hereby expressly release and indemnify us and hold us harmless from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent. 1 Please see the "Guidance on Use of Covestro Products in a Medical Application" document. Typical value: These values are typical values only. Unless explicitly agreed in written form, they do not constitute a binding material specification or warranted values

Edition: 2021 · Printed in Germany