

# VINNEX<sup>®</sup> LA 8040

## Polymer Resins

VINNEX<sup>®</sup> LA 8040 is a solid, thermoplastic polymer granulate. The colorless, semi-transparent polymer is based on vinyl acetate/vinyl laurate copolymer and polylactic acid. It is designed as an additive for the application in biodegradable plastic formulations.

## Properties

VINNEX<sup>®</sup> LA 8040 provides the following advantages to processing of biodegradable plastics (PLA:, PBAT, starch,):

- Processing of biopolyesters on conventional thermoplastic equipment.
- Blending of biopolyesters with each other, easy homogenization.
- Increased organic or inorganic filler/fiber content without hardly sacrificing performance.
- Improved performance and final product properties.
- Improved processing and increased process speed, especially in 3D printing, film processing, injection molding and extrusion applications.
- Reduces metallic noise of PLA

## Technical data

### Specification

Property	Condition	Value	Method
Bulk density	-	650 - 750 kg/m <sup>3</sup>	DIN 53466
Loss on drying	-	(after 15 min) < 1 %	specific method

## General Characteristics

Property	Condition	Value	Method
Supply form	-	Granules	Visual
Density polymer	-	+/- 0,02 1.23 g/cm <sup>3</sup>	DIN EN ISO 1183 /1-3
Glas transition temperature	-	approx. 50 °C	DSC DIN EN ISO 11357-2
Appearance	-	colorless, semi-transparent granules	Visual
Ash content	-	max. < 0.5 %	-

These figures are only intended as a guide and should not be used in preparing specifications.

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Protect against moisture.

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be downloaded via WACKER web site <http://www.wacker.com>.

## Applications

- Additives for Biopolymers

## Application details

### Application

VINNEX® LA 8040 is recommended for modification of biodegradable polymers and compounds or their blending with natural or mineral fillers and fibres in dry mix applications.

### Processing

VINNEX® LA 8040 can be mixed with the other solid raw materials of the bioplastic formulation.

Product data:

Melt viscosity, 100% Polymer, capillary viscometer:

170°C 100 [1/s] ~320 Pa.s

190°C 100 [1/s] ~210 Pa.s

### Additional information

If the product is used in applications other than those mentioned, the choice, processing and use of it is the sole responsibility of the purchaser. All legal and other regulations must be complied with.

Slight color variations of the polymer granulate may occur without impairing the product's functionality.

## Packaging and storage

### Packaging

20 kg Alumina laminated bags.

### Storage

VINNEX® LA 8040 should not be stored at temperatures above 30°C in order to prevent caking. Storage conditions must be dry; material must be protected from direct sun exposure.

Under these conditions the product has a shelf life of at least 12 months. If the product is kept for longer than that, it can still be used, but users are advised, in this case, to check the properties required for the intended use.

## Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. These are available on request from WACKER sales offices or may be downloaded from the WACKER Web site [www.wacker.com/vinnex](http://www.wacker.com/vinnex).

## QR Code VINNEX® LA 8040



### For technical, quality or product safety questions, please contact:

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