

This specification describes articles of the material group

PLA – Poly-lactic acid










Material description:

PLA forms through the production of lactic acid from glucose from fermentation. Then a polymerization is added to the resulting lactic acid in the second step. The glucose is obtained here by the grinding and subsequent saccharification from plants which contain starch. Production of PLA in the USA (NatureWorks® Polymer PLA).

PLA can be processed in similar plants as PE: injection moulding, deep-draw, sheet blowing. PLA consists of 100 percent renewable raw materials, has a high stiffness factor, is moisture and grease resistant and has a high gloss. The material is transparent, printable, biodegradable, food-safe but not heat resistant.

	<p>Drinking cups Article no. N391, N146, N147, N197, N254, N335, 2822, 2823, 2824, 2825, 13756, 15447</p>
	<p>Spirits cup Article no. 3172</p>
	<p>Dessert cup Article no. 10051</p>
	<p>Diamond bowl Article no. 2757</p>
	<p>Clear cup Article no. 2749, 10176</p>
	<p>Souffle cup 60ml Article no. 15746</p>

This information is based on our current level of know-how and knowledge. Specifications can be adjusted at any time without advance warning.

	<p>Souffle cup 90ml Article no. 15747</p>
	<p>Food container 240ml Article no. 16404</p>
	<p>Food container 350ml Article no. 16405</p>
	<p>Food container 500ml Article no. 16406</p>
	<p>Lid for food container Article no. 16403 suitable for 16404, 6405, 16406</p>
	<p>Lid flat with hole Article no. 2826 suitable for 2823, 2824, 2825</p>
	<p>Lid flat without hole Article no. 16601 suitable for 2823, 2824, 2825</p>
	<p>Lid flat without hole Article no. N374</p>
	<p>Push&Click lid Article no. 15745 suitable for 15746, 15747</p>

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	<p>Lid flat with cross hole Article no. 2828 suitable for 2825</p>
	<p>Lid dome with hole Article no. 2827 suitable for 2749, 2823, 2824, 2825</p>
	<p>Lid dome without hole Article no. N544 suitable for 2749, 2823, 2824, 2825</p>
	<p>Lid for diamond bowl Article no. 2758 suitable for 2757</p>

Material / composition

PLA Poly-lactic acid

Storage

Storage temperature: ambient
 Relative humidity: dry
 Storage conditions: keep away from direct sunlight

Purpose of use

Types of food to be in contact with the material:

- aqueous
- dry
- acid
- greasy
- alcoholic

Types of food which should NOT come into contact with the material:

- Pure fat and oil, marinated products and oil

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Applications:

- Temperature resistant 0°C to +40°C

NOT suitable applications:

- Oven
- Microwave
- Freezer -20 ° C

Declaration of compliance

These articles meet the following regulations and are suitable for direct contact with food :

- Regulation (EC) No 2023/2006** on good manufacturing practice for materials and articles intended to come into contact with food
- Regulation (EC) No 1935/2004** on materials and articles intended to come into contact with food and
- Regulation (EU) No 10/2011** on plastic materials and articles intended to come into contact with food
- Directive 94/62/EC** on packaging and packaging waste

Overall migration

Tested under the following conditions:

Simulant	Time	Temperature
<input checked="" type="checkbox"/> B: Acetic acid 3 % (v/v)	3 d	40°C
<input checked="" type="checkbox"/> D2: Vegetable oil	3 d	40°C
<input checked="" type="checkbox"/> Alternative simulant Ethanol 95 % (v/v)	3 d	40°C

The global migration values are with correction factor 1/2 below the limit of 10 mg/dm² or 60 mg/kg.

Specific migration

The values of the following monomers, for which specific migration limits and limitations apply, are met :

Substance	CAS-nbr	Limit mg/kg
fatty acid		60
Di-2-ethylhexylphthalate (DEHP)	117-81-7	1.5
Lactic acid esters	50-21-5	60 (for lactid acid)
Poly lactide-oligomers		60 (for lactid acid)

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Calculation basis

ratio of food contact surface area to volume used to establish the compliance of the material or article: 6 dm² / kg

Heavy metals

No increased heavy metal values were detected in the packaging. The sum of the measured elements is below the limit of 100 mg/kg according to the ChemRRV as well as the directive 94/62/EC.

Biological degradability: the products are completely biodegradable

Certificates: DIN EN 13432
Certificate no 7P0305
Certificate no 7P0306

Customs duty number: 3923.1000
3924.1000

Reclamation

Deliveries, which differ from the listed specifications, will be withdrawn and replaced after review.

Pacovis AG

<p>Created by: STOL Date: 25.08.2017</p>	<p>Released by: MEI Andreas Meier (Head of Purchasing)</p> 
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