






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, bio-degradable, food-safe but not heat resistant.

Picture	Description	Article number
	Salad bowl with lid	N579, N580, N581, N582, N584
	Salad bowl with lid	N583, N585, 14359, 14360, 14361
	Salad bowl round	12559, 13650, 14517
	Lid for salad bowl round	12560
	Lid dome stackable for salad shaker / drinking cups 3 – 5 dl	11151

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	Lid dome stackable with hole for salad shaker / drinking cups 3 – 5 dl	11645
	Insert for salad shaker / drinking cups 3 – 5 dl and dessert cups 10051	N347
	Shallo insert for salad shaker / drinking cups 3 – 5 dl and dessert cups 10051	11318
	Flat lid with hole for drinking cups 2 dl / 2.5 dl	10379
	Lid dome with hole for drinking cups 2 dl / 2.5 dl	10063
	Square lid	N279, 14170
	Lid for cup dessert 10838, 11434 / 10839, 11435	10920, 10921
	Lid for salad bowls 12895, 12896, 12897	13309
	Lid flat for bowls N395/N396/N397	12012
	Lid flat for bowls 3456/3457	12049

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

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	Lid rectangular for 15551, 15552	15545
	Lid rectangular for 14968 & 14969	16821
	Lid square for 14966 & 14967	16823
	Round lid flat for 13517, 14970, 14971	15370
	Square lid clear for 14966, 14967	15258
	Rectangular lid clear for 14968, 14969	15260
	Round lid dome for 13517, 14970, 14971	13343
	Dom lid round for 15549, 15550	15543
	Dom lid for 15548	15254
	Dom lid round for 15548	17491

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	Container with Lid	17522, 17523, 17524, 17525, 17526
	Flat Lid round PLA 150mm for 17011 & 17012	17590
	Flat Lid round PLA 185mm for 17013 & 17014	17592
	Rectangular Box clear, 2000ml 228x187x77mm	18565
	Flat lid clear, PLA for ANR 18565	18566

Material/composition

Material: Poly-lactic acid

Storage

Storage temperature: 0°C to 35°C
Relative humidity: dry
Storage conditions: keep away from direct sunlight

Purpose of use

Types of food to be in contact with the material:

all types of food

Applications:

- Storage : 3d
- Heat resistant : up to 40°C
- single-use

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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
- SR 817.023.21** The Swiss Ordinance on Materials and Articles in Contact with Food

Overall migration

Tested under the following conditions (Test report SQTS 2018L21730):

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

The global migration values are 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 esters		60
Fatty acid		60
Lactid acid oligomers		Lactid acid: 60

* or substance with similar mass spectrum

Calculation basis

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

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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.

Production location: Taiwan


Biological degradability: the products are completely biodegradable

Certificate: Dincertco DIN EN 13432

Customs duty number:
3923.1000
3923.9000
3924.1000
3923.1090

Reclamation

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

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