

# SYNTHOS PS

## Polystyrene

### Declaration of compliance

Date of compilation: 2024-04-25

#### Synthos S.A.

ul. Chemikow 1,  
32-600 Oswiecim

#### Production plant:

- Synthos Dwory 7 spółka z ograniczoną odpowiedzialnością, ul. Chemikow 1, Oswiecim, Poland
- Synthos Kralupy a.s., 278 01 Kralupy n. Vltavou, O. Wichterleho 810, Czech Republic
- Synthos Breda B.V. Lijndonk 25, 4825BC Breda, The Netherlands

declares, that:

#### polystyrenes SYNTHOS PS, types:

- SYNTHOS PS GP 525, SYNTHOS PS GP 535, SYNTHOS PS GP 585 A, SYNTHOS PS GP 585 C, SYNTHOS PS GP 585 X, SYNTHOS PS GP 137, SYNTHOS PS GP 152, SYNTHOS PS GP 154, SYNTHOS PS GP 171, SYNTHOS PS GP 172, SYNTHOS PS GP 174, SYNTHOS PS GP 174 H, SYNTHOS PS MG 130M, SYNTHOS PS MG 170M (GPPS)
- SYNTHOS PS HI 336M, SYNTHOS PS HI 552M, SYNTHOS PS HI 562E, SYNTHOS PS HI 662E (HIPS)

delivered in granulate form

#### meet the following requirements:

- Regulation (EC) no 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC
- Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food, amended by Commission Regulation (EU) no. 321/2011, no. 1282/2011, no. 1183/2012, no. 202/2014, no. 2015/174, no. 2016/1416 no. 2017/752, no. 2018/79, no. 2018/213, no. 2018/831, no. 2019/37, no. 2019/1338, no. 2020/1245, no. 2023/1442 and no. 2023/1627. The substances used in manufacturing of above mentioned products are listed in the Union list of authorized monomers, other starting substances, additives and polymer production aids of Commission Regulation 10/2011, Annex I.
- Commission Regulation (EC) No. 2023/2006 of 22 December 2006 on good manufacturing practice for materials and articles intended to come into contact with food
- Council of Europe resolution AP(89)1 on the Use of Colorants in Plastic Materials Coming into Contact with Food

#### Synthos S.A.

ul. Chemików 1, 32-600 Oświęcim, tel. +48 33 844 18 21...25, fax +48 33 842 42 18.

[www.synthosgroup.com](http://www.synthosgroup.com)

The logo for Synthos, featuring the word "synthos" in a lowercase, sans-serif font. The "o" is stylized with a green leaf-like shape integrated into it.

The following compounds covered by the specific migration limits complying with Annex I to the Regulation (EU) No 10/2011 may be present in above mentioned products grades of polystyrenes:

#### GPPS grades

FCM No.	Ref. No.	CAS No.	Name	SML (mg/kg)
193	24610	100-42-5	Styrene	-
106	24550/89040	557-05-1	Zinc stearate	5

#### SYNTHOS PS HI 336M, SYNTHOS PS HI 552M, SYNTHOS PS HI 562E, SYNTHOS PS HI 662E

FCM No.	Ref. No.	CAS No.	Name	SML (mg/kg)
193	24610	100-42-5	Styrene	-
223	13630	106-99-0	Butadiene	0,01
433	68320	2082-79-3	Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate	6

Polystyrenes Synthos PS do not contain primary aromatic amines and metal listed in Annex II of Regulation (EU) No 10/2011 with the exception of zinc salts (SML 5 mg/kg).

- Type or types of food with which it is intended to be put in contact:  
Each type of food
- Time and temperature of treatment and storage in contact with the food:  
Long term storage of all type of food (for more than 6 months) at room temperature or below, including heating to maximum 70°C for up to 2 hours, or heating to 100°C for up to 15 minutes.
- Ratio of food contact surface area to volume used to establish the compliance of the material or article: 6 dm<sup>2</sup> per 1 kg of food.

Polystyrenes Synthos PS do not contain any dual use additives and functional barriers.

#### Furthermore, polystyrenes SYNTHOS PS meet the following requirements:

- Commission Regulation (EC) no 1895/2005 of 18 November 2005 on the restriction of use of certain epoxy derivatives in materials and articles intended to come into contact with food.  
Above – mentioned products do not contain 2,2-bis(4-hydroxyphenyl)propane bis(2,3-epoxypropyl) ether (BADGE), bis(hydroxyphenyl)methane bis(2,3-epoxypropyl)ethers (BFDGE) and novolac glycidyl ethers (NOGE).
- EN 71-3, Safety of Toys - Migration of certain elements and EN 71-9, Safety of Toys - Organic chemical compounds.
- Directive 2011/65/EC of European Parliament and of the Council of 8 June 2011, updated by the Directive (UE) 2015/863, on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) Annex II.  
Above-mentioned products contain:
  - less than 0,1% (w/w) (1000 ppm) of lead, mercury, hexavalent chromium, polybrominated biphenyls (PBB), polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP) and,
  - less than 0,01% (w/w) (100 ppm) of cadmium.
- Directive 94/62/EC of European Parliament and of the Council of 20 December 1994 on packaging and packaging waste (the sum of concentration levels of lead, cadmium, mercury and hexavalent chromium present in our products does not exceed 100 ppm by weight).



- Directive 2000/53/EC of the European Parliament and of the Council on end-of life vehicles. Above mentioned products comply with the requirements regarding the heavy metal content limit defined in the notes of the decision of the council 2010/115/EC because the overall concentration of lead, hexavalent chromium and mercury is lower than 0,1% by weight and concentration of cadmium is lower than 0,01 % by weight.
- The Montreal Protocol on substances that deplete the Ozone Layer. Above – mentioned products are free from ozone-depleting substances.

**Supplementary information:**

The data on above mentioned products relate exclusively to the basic polymer in its granulate form. The overall and specific migration limits have to be controlled on the finished articles intended to come into contact with foodstuffs in accordance with different food types and various end-use conditions; consequently it is the responsibility of the end-user of these polymer products.

The production process control, its monitoring and final inspection of products are assured in accordance with a certified Integrated Management System based on the ISO 9001, ISO 14001, PN-N 18001 (OHSAS 18001).



Anna Wójcik

Board Representative for regulations  
for chemicals