

# PRODUCTS SERIES

## Biopek® MXP LP EXPANDABLE POLYSTYRENE

### TECHNICAL DATA SHEET

July 2023



#### Description Biopek® MXP LP

The product line Biopek® MXP LP is an expandable polystyrene foam (EPS) in spherical beads that is processed like standard EPS and has been designed to have an accelerated biodegradation compared to standard EPS, while maintaining the excellent performance characteristics of EPS molded foam.

Biopek® MXP LP products are compatible with many antistatic, color pigments and other additives that can be added during the transformation process.

#### Products and Applications

The Biopek® MXP LP series products are: **MXP240 LP, MXP340 LP, MXP440 LP, and MXP540 LP**. Biopek® MXP LP products can be used in a wide variety of applications including protective packaging, food packaging, fish boxes, coolers and nurseries. The typical use of each fraction is described in Table 1

#### Compliance with Standards and Regulations

Biopek® MXP LP foam manufactured from Biopek® MXP LP complies with the following standards and regulations according to its specific application:

- FDA Articles 21 CFR 177.1640 and 21 CFR 178.3010 for food contact packaging applications.
- NOM-010-STPS-2014 of the Mexican Legislation.
- EU 10-201 of the European Community for application as food contact packaging material.
- REACH Directive on the restriction of the use of hazardous substances.
- RoHS Directive restricting the use of heavy metals and specific flame retardants.

#### Packaging and Storage

Biopek® MXP LP products is available in flexible super-sacks 800 kgs (1,763 lbs). Internal plastic "Liners" are used to extend the life of the product by holding the blowing agent.

Biopek® MXP LP products should be stored in cool places (maximum temperature 27C / 80F), in their respective containers properly closed.

The typical shelf life of Biopek® MXP LP is 120 days from delivery date to the customer. Opened containers should be used as soon as possible, otherwise they should be hermetically sealed, otherwise their physical and/or chemical properties may change. Containers should be protected from rain, snow, frost, direct sunlight and physical damage.

#### Processing

Biopek® MXP LP based foams are produced in three main stages: pre-expansion, intermediate storage and molding. Full details of each of these three stages can be found in the Technical Manual.

TABLE 1: APPLICATION

Products	Typical applications
Biopek® MXP240 LP	Block molding and packaging of high density, with excellent fusion and short cycle time, with characteristics of biodegradability in accelerated form.
Biopek® MXP340 LP	Molded packaging with excellent melting and short cycle time, with accelerated biodegradability characteristics.
Biopek® MXP440 LP	Narrow wall packaging molding (wall > 6mm), medium and high densities, with excellent superficial finish, good melt and excellent cycle time, with accelerated biodegradability characteristics.
Biopek® MXP540 LP	Cup molding and packaging of high density with excellent surface finish (wall >3mm), with characteristics of biodegradability in accelerated form.

Note: These products can be used in other applications depending on the skill and equipment of each EPS Beads Customer.

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