



# Versalis Extir® LN

EPS

Technical Data Sheet  
Expandable Polystyrene

Fast cycles - Excellent sintering - High mechanical strength - Suitable for food contact

Versalis Extir® LEONARDO LN is a white expandable polystyrene gamma, characterized by high expansibility, excellent fusion and excellent mechanical properties. Due to its high processability, dimensional stability and quality surface finishing, Versalis Extir® LN is a very versatile product suitable for the production of items of different shapes and sizes, including thin-walled, blocks, and products for specific uses such as thermal insulation.

In addition, Versalis Extir® LN is a food-contact gamma, making it versatile and suitable for a wide range of applications.

## Technical Information

	Unit	P1212	LN 1500	LN 2000	LN 3000	LN 5000	LN 7000
Bulk density	kg/m <sup>3</sup>	590 – 630					
Beads size	mm	0,3 – 0,4	0,3 – 0,75	0,4 – 0,75	0,7 – 1,0	0,9 – 1,8	1,6 – 2,4
Typical pentane content	%	< 6,5					
Minimum apparent density							
• After one expansion	kg/m <sup>3</sup>	22	19	18	16	15	15
• After two expansions	kg/m <sup>3</sup>	Non appl.	Non appl.	Non appl.	Non appl.	9	9
Usual density range	kg/m <sup>3</sup>	20 - 60	20 – 30	18 – 30	16 – 30	10 - 25	10 – 15

For more information, please refer to the technical bulletin "EXTIR® for packaging"

## Applications

### Versalis Extir® P1212

It is suitable to produce items with complex shapes and very fine sections.

Typical applications are:

- Multi-hole seed trays
- Industrial technical packaging
- Printed circuit board boxes
- Medical kits

### Versalis Extir® LN 1500

It is suitable to produce items with complex shapes and very fine sections.

Typical applications are:

- Multi-hole seed trays
- Cheese containers
- Lightened mortar

### Versalis Extir® LN 2000

It is mainly used in the packaging industry. Typical applications are:

- Food containers
- Seed trays
- Industrial packaging
- Protective packaging



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**Versalis Extir® LN 3000** It is suitable for applications requiring flexibility and resistance to compression:

- Crates for fish, fruit/vegetables, poultry and cheese
- Industrial packaging
- Medium-high density blocks for cutting profiles or panels.

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**Versalis Extir® LN 5000** It is suitable to produce cut blocks with excellent aesthetic and thermal insulation characteristics:

- Blocks for thermal insulation (gaps, floors, ceilings)
- Accessories exhibition
- Cut or dug-out packaging
- Building panels and profiles for use with plasterboard, bituminous sheathing or metal sheets

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**Versalis Extir® LN 7000** It is mainly used in the construction industry. Typical applications are:

- Lightweight blocks for heat insulation panels, especially for the insulation of interstitial walls
- Elastic blocks for sound insulation
- Road foundations and civil constructions

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### Processing

Versalis Extir® LEONARDO LN can be processed in three steps.

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**Pre-expansion** Versalis Extir® LN can be pre-expanded to the densities indicated above with common continuous or discontinuous expanders.

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**Aging** The aging time of the expanded beads is between 6 and 48 hours. It may vary according to the desired density and climate conditions. In the case of double expansion, an intermediate maturation of 3-6 hours is recommended.

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**Molding** It can be molded in any type of EPS mold or block-moulding machines in a wide range of vaporization conditions.

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### Certifications

Versalis Extir® LN is suitable for contact with food according to EU Regulation 10/2011.

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## Storage



Keep the product in a dry well-ventilated store between 15 and 20°C.



For product packaged in octabins and stored correctly, the guaranteed shelf-life is one month from delivery.



Versalis Extir® Leonardo LN molded panels and products should not be exposed to direct sunlight or wrapped in plastic film. We strongly recommend using opaque or white packaging.

## Safety

During the processing of Expandable Polystyrene, an explosive atmosphere may be generated due to air / pentane mixtures. For this reason, all possible causes of ignition such as open flames or sparks must be avoided, it is necessary to work in adequately ventilated places and a smoking should be forbidden. Adequate electrical grounding of machinery and of pneumatic conveyance lines is recommended. For further information relating to storage, packaging and processing precautions, please refer to the Technical Bulletin "Styrenics - Technical data sheets" and to the "Versalis Extir® Safety Data Sheets".