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/m³	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/m³	22	19	18	16	15	15
• After two expansions	kg/m³	Non appl.	Non appl.	Non appl.	Non appl.	9	9
Usual density range	kg/m³	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.
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
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

Processing

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

Pre-expansion	Versalis Extir® LN can be pre-expanded to the densities indicated above with common continuous or discontinuous expanders.
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.
Molding	It can be molded in any type of EPS mold or block-moulding machines in a wide range of vaporization conditions.

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.