

## Leonardo LN 2000

Fast cycles - Excellent sintering - High mechanical resistance - Food contact applications

Extir® Leonardo LN 2000 is a white expandable polystyrene with improved processability. Extir® Leonardo LN 2000 is defined by high expandability, excellent sintering and excellent mechanical properties of the molded pieces. It is a very versatile product, suitable for the production of any type of thin-walled product. Extir® Leonardo LN 2000 is suitable for food contact applications.

### Applications

Extir® Leonardo LN 2000 is mainly used in the packaging sector. Typical applications are:

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

### Technical informations

Bulk density	kg/m <sup>3</sup>	590 - 630
Pentane content	%	5-7
Beads size	mm	0,4 - 0,75
<b>Minimum apparent density</b>		
in a continuous pre-expander after one expansion	kg/m <sup>3</sup>	18
in a continuous pre-expander after two expansions	kg/m <sup>3</sup>	not appl.
in a discontinuous pre-expander	kg/m <sup>3</sup>	16
Density range normally used	kg/m <sup>3</sup>	17 - 30

For information about the properties of printed products, see the "[EXTIR® for packaging](#)" brochure

### Processing

Extir® LN range products can be processed in three steps.




Pre-expansion	Extir® Leonardo LN 2000 can be pre-expanded to the densities indicated above with continuous or discontinuous expanders
Aging	The aging time of the expanded beads is between 6 and 72 hours. It may vary according to the desired density and environmental conditions.
Molding	Extir® Leonardo LN 2000 can be molded in any type of EPS mold over a wide range of vaporization conditions.

The final products show excellent sintering, low shrinkage and excellent surface appearance.

## Certifications

Extir® Leonardo LN 2000 is suitable for food contact according to EU Regulation 10/2011

## Storage

-  Keep the product in a dry well ventilated store between 15- 20°C.
-  For product packaged in octabins and stored correctly, the guaranteed shelf-life is one month
-  The boards and molded parts made of Leonardo LN 2000 should not be exposed to solar radiation and packed in transparent film. The use of an opaque or white film is strongly recommended.

## Safety

During the processing of Expandable Polystyrene, an explosive atmosphere could be created due to air / pentane mixtures. For this reason, all possible causes of ignition such as naked 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 "Extir Safety Data Sheets".

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All indicated data refer to natural grades.

The data, information and suggestions are provided for guidance purposes only.

The Company accepts no responsibility for the results obtained therefrom, as neither for their utilization in infringement of possible patent rights. However the Company will provide the guaranteed values for each product on demand.

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