

## Leonardo LN 5000

Fast cycles - Excellent sintering - High mechanical resistance - Wide density range

Extir® Leonardo LN 5000 is a white expandable polystyrene with improved processability. Extir® Leonardo LN 5000 is characterized by high expandability, excellent sintering and excellent mechanical properties of the molded parts. Extir® Leonardo LN 5000 is a very versatile product, suitable for the production of blocks in a wide range of densities.

### Applications

Extir® Leonardo LN 5000 is suitable for the production of block cutting products with excellent aesthetic and thermal insulation characteristics:

- Blocks for thermal insulation sheets (cavities, floors, ceilings)
- Window insulation
- Blocks cut packaging
- Slabs and profiles for building to be coupled with plasterboard, bituminous sheaths or metal sheets

### Technical informations

Bulk density	kg/m <sup>3</sup>	590 - 630
Pentane content	%	5-7
Beads size	mm	0,9-1,6

#### Minimum apparent density

in a continuous pre-expander after one expansion	kg/m <sup>3</sup>	15
in a continuous pre-expander after two expansions	kg/m <sup>3</sup>	9
in a discontinuous pre-expander	kg/m <sup>3</sup>	13
Density range normally used	kg/m <sup>3</sup>	10-25

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 5000 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 5000 can be molded in any type of EPS mold over a wide range of vaporization conditions.

The molding is easy, fast and the sintering is excellent even using low steam pressures.

## 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 3000 should not be exposed to solar radiation and packed in transparent film. The use of an opaque or white film is strongly recommended.

## Sicurezza

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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