

Leonardo LN 3000

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

Extir® Leonardo LN 3000 is a white expandable polystyrene with improved processability. Extir® Leonardo LN 3000 is characterized by high expandability, excellent sintering and excellent mechanical properties of the molded pieces, it is a very versatile product, suitable for the production of blocks and molded products. Extir® Leonardo LN 3000 is suitable for contact with food.

Applications

Extir® Leonardo LN 3000 is suitable for applications that require flexibility and compressive strength:

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

Technical informations

Bulk density	kg/m ³	590 - 630
Pentane content	%	5-7
Beads size	mm	0,7-1,0
Minimum apparent density		
in a continuous pre-expander after one expansion	kg/m ³	16
in a continuous pre-expander after two expansions	kg/m ³	not appl.
in a discontinuous pre-expander	kg/m ³	15
Density range normally used	kg/m ³	16 - 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 3000 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 3000 can be molded in any type of EPS mold over a wide range of vaporization conditions.

The molding is easy, fast and the final products show low shrinkage and an excellent surface appearance

Certifications

Extir® Leonardo LN 2000 is suitable for contact with food 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 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.
