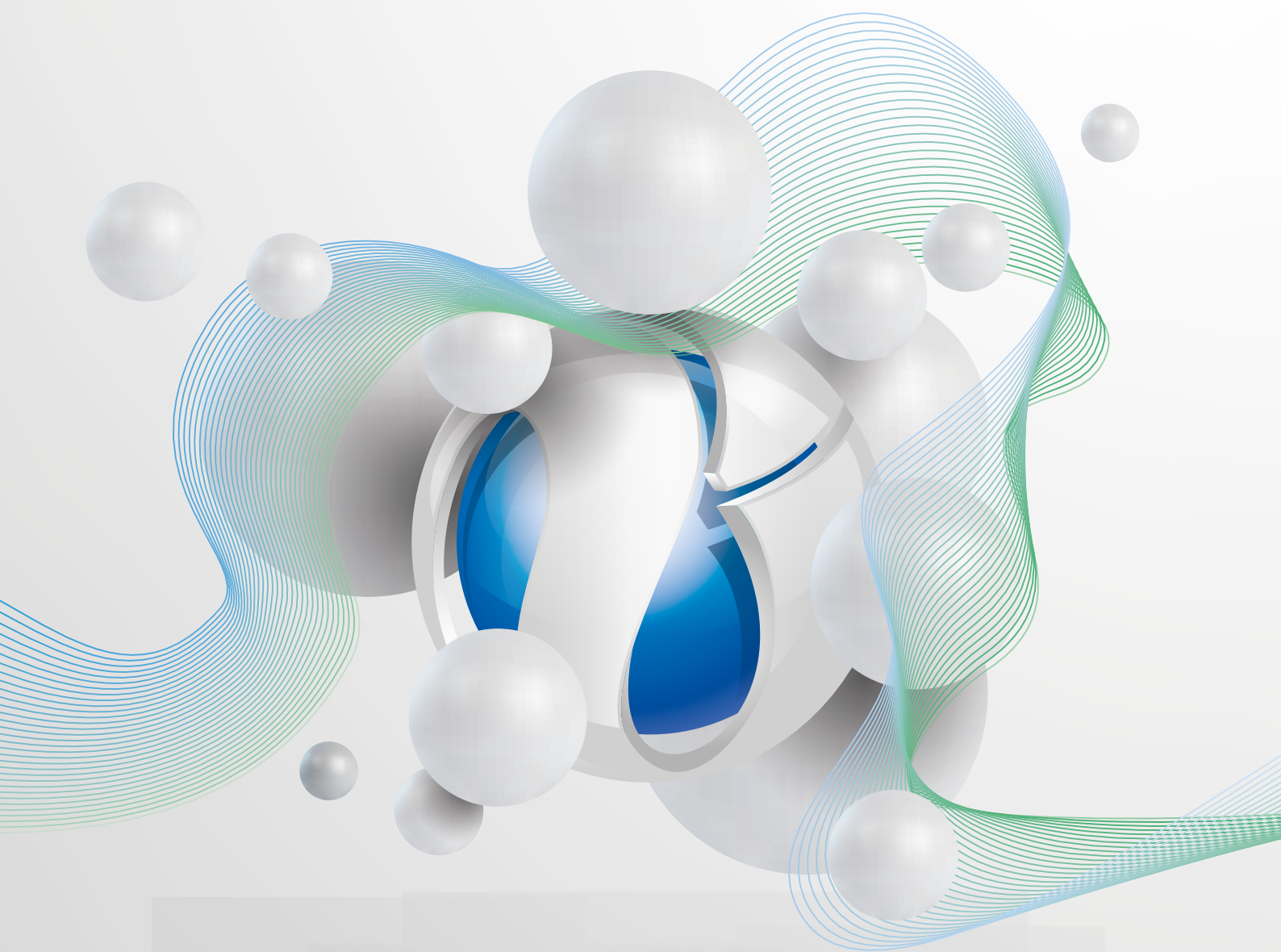


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PRODUCTS FOR THE PACKAGING INDUSTRY

Plastic packaging accounts for almost half of the total packaging market. The ever-increasing demand for packaging depends on many factors, and one of the most important ones is the increasing demands of consumers concerning the aesthetics and precision of their workmanship, as well as their recyclability and reusability.

Synthos S.A. supplies the packaging market with modern InPacto® products, featuring high quality, very good processability, easy of use and the possibility of full recycling.





InPacto® is a brand with a strong and stable market position, gained from the **reliability** of products used in the safe transport of precious goods. The consistent **processability** of InPacto® materials, and their excellent **ease of processing**, make them a great success in a variety of applications. For customers who appreciate **high quality raw materials**, it is ideal for producing packaging which protects both delicate goods against physical damage and goods sensitive to different temperatures (e.g. medicines, medical samples).

InPacto® is an expandable white polystyrene dedicated to the production of packaging certified for contact with food. The distinguishing features of products based on InPacto® are **high quality, pleasing aesthetics**, and **excellent strength**.

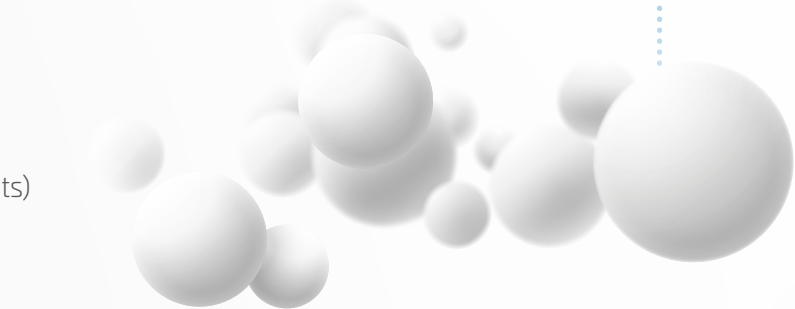
InPacto® products are available in two levels of pentane content. The breadth of the InPacto® portfolio of products makes it possible to use them in a broad range of applications. Their further processing is possible for the full range of densities, for each type of moulding, in the full range of end-use products.



APPLICATIONS

InPacto® applications:

- food packaging
- transport packaging (household appliances, consumer electronics, furniture),
- fish boxes
- cups for hot and cold beverages
- fittings and decorative elements
- personal protective products (helmets, child-safety seats)
- packaging for pharmaceutical and medical transport
- and many others...



ADVANTAGES

Packaging products based on InPacto® are very popular and have gained the trust of end users. InPacto® is a material designed to meet the requirements of packaging manufacturers in terms of durability, precise finishing of end products, and thermal insulation for products dedicated to the transportation and storage of food. InPacto® guarantees transport safety, high quality of end products, and, through the possibility of recycling, environmental protection.

TYPE	PARTICLE SIZE RANGE (mm)	TYPICAL BULK DENSITY (kg/m³)	MATERIAL CHARACTERISTICS
PRODUCTS WITHOUT POLYMERIC FLAME RETARDANT AND WITH VARYING PENTANE CONTENT			
InPacto 300 S/F1	0,4 – 0,7	18 - 40	white EPS for packaging, approved for direct contact with food, without flame retardant, standard content of pentane
InPacto 500 S/F1	0,7 – 1,0	15 - 40	
InPacto 800 S/F1	1,0 – 1,6	13 - 30	
InPacto 300 SR/F1	0,4 – 0,7	20 - 50	white EPS for packaging, without flame retardant, reduced content of pentane (short moulding cycles)
InPacto 500 SR/F1	0,7 – 1,0	18 - 40	
InPacto 800 SR/F1	1,0 – 1,6	16 - 30	
InPacto 100 D/NL	0,2 – 0,4	70 - 100	white EPS for cup production, approved for direct contact with food, without flame retardant,
InPacto 200 D/NL	0,3 – 0,5	50 - 100	
InPacto 300 D/NL	0,5 – 0,8	25 - 30	

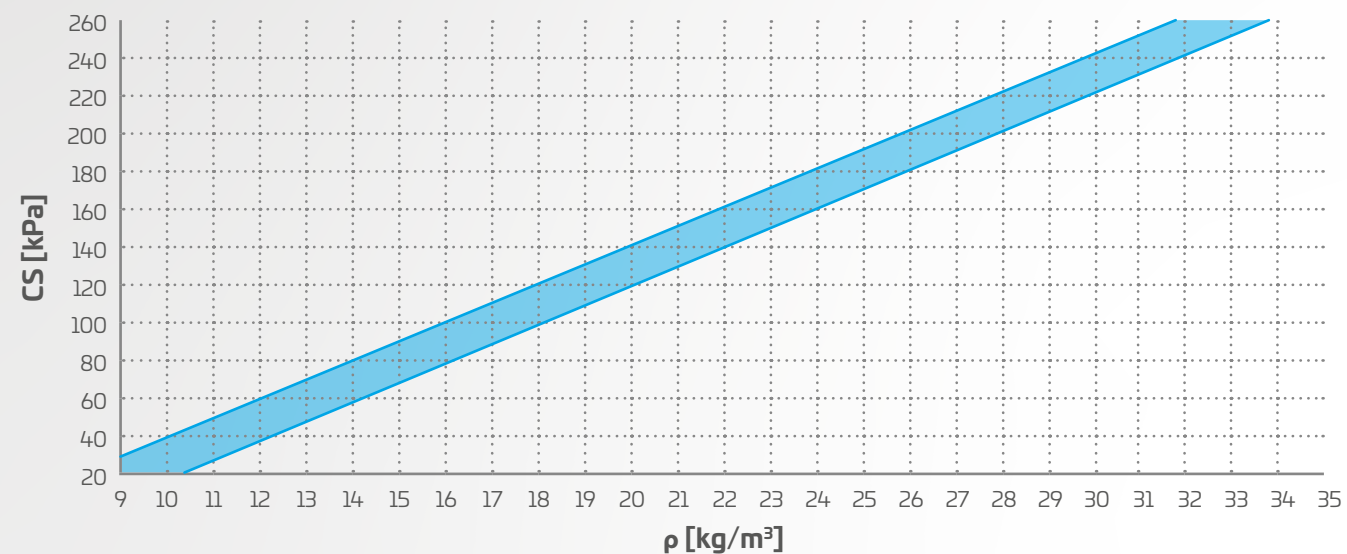
HEALTH AND THE ENVIRONMENT

InPacto®-based finished products are safe for human and animal health as well as for the environment, both during and after use. InPacto®-based food packaging helps prevent food waste, thus helping the environment. An important aspect is also the fact that, thanks to the possibility of expanded polystyrene being processed into primary raw materials, it is the only thermal insulation product on the market which allows the possibility of full recycling.

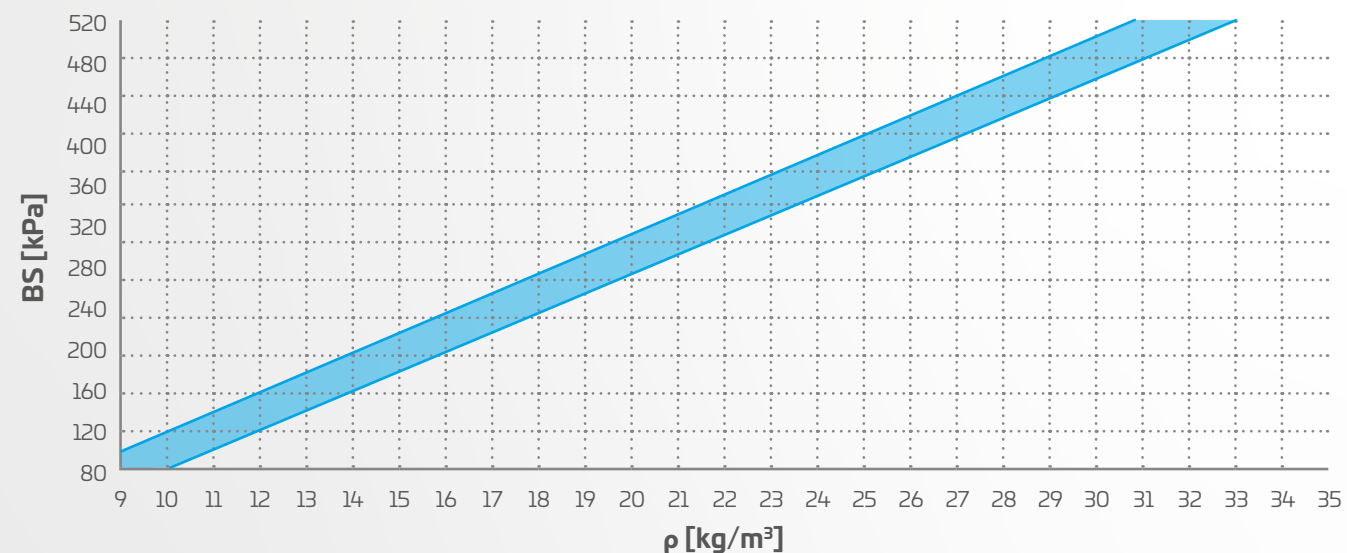
Synthos and other players in the packaging market are taking actions to develop recycling technology for polystyrene foams. The techniques developed, consisting of mechanical and chemical recycling together with polymer dissolution processes, are aimed at implementing the assumptions of the Circular Economy concept (CE). Soon, we will be able to obtain high-quality polystyrene recyclates from the polystyrene foams used in the packaging industry. The recycling process implementing the objectives of the CE will be carried out without harming the environment.

InPacto® products provide perfect mechanical parameters in a full range of densities. That is why the broad portfolio allows InPacto® to be used in many different applications. This fact is crucial for production of various food packages, transport packages and fittings and decorative elements with different densities and wall thicknesses.

Dependence of compressive strength at 10% strain (CS) on density



Dependence of bending strength (BS) on density



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