

NEW LINE: PP RIGID & FOAM FOIL SHEET

We are pleased to introduce the line newly designed for the production of PP rigid & foam foil sheet.

This line, implemented with foam technology, is suitable for the production of single or multilayer polypropylene sheets or foils. The manufacturing process consists in the inclusion of natural gas (CO₂ or N₂) during the extrusion process obtaining a reduction in the density of the polypropylene up to 50% of the nominal value.

From the tests carried out in Omipa, starting from a nominal density of 0,95 Kg/dm³, we have obtained a reduction in density up to 0,58 Kg/dm³ for multilayer production. Concerning the single-layer production, on the other hand, the results obtained reach a value of 0,5 kg/dm³. We think these parameters are just a starting point from which, with further developments, we will be able to further reduce the density of the final product.

This line, and therefore the foam technology applied to polypropylene, is suitable for the production of sheet and foil for the following thermoforming process. The main production sector of reference is food packaging, which has experienced a strong growth in recent years.

Not only for food packaging, the production of PP foam is aimed at all those applications where an easily thermoformable sheet or foil is required together with the need to reduce the use of raw material. Polypropylene with foam technology guarantees greater advantages compared to the production of traditional polypropylene, such as, for example, a lower consumption of material and a reduction in weight given by a lower density for the same surface.

Unlike polystyrene, which is widely used in the food packaging sector, polypropylene is totally recyclable and has a lower environmental impact during the manufacturing and processing procedure. The product is therefore in compliance with an environmentally sustainable market, which is growing strongly and is characterised by significant future investments.

We strongly believe in the enormous potential of this new line.