



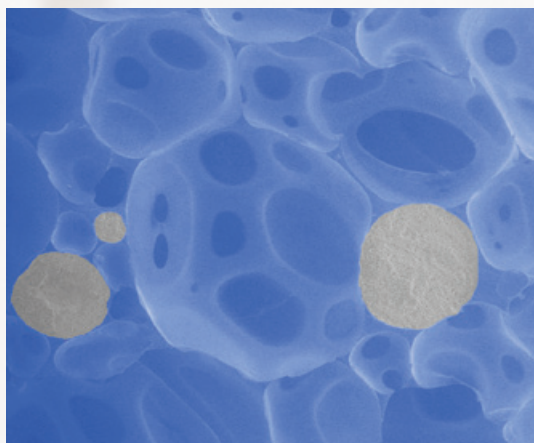
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CLIMA
®
FRESH



50 YEARS EXPERIENCE in the production of flexible polyurethane foams, the PARTNERSHIP with the most important suppliers of raw materials, COLLABORATION with the Department of Industrial Chemistry and Materials, Alma Mater Studiorum - University of Bologna, have allowed Pelma R&D Laboratory to develop this new production technology to obtain a range of polyurethane foams with innovative features, in conventional variants, high resilience (HR) and viscoelastic.



The THERMAL FEATURE is achieved through the use of special Phase Change Materials: latent heat accumulators which exploit the phenomenon of phase transition to absorb the incoming energy flows and which store a high amount of energy and keeping to its constant temperature.

The PCM, initially developed by NASA, have been studied for some years in numerous applications where it is necessary to combine flexibility, breathability and heat transfer in a single product.



The HYGIENIC FEATURE is achieved through the special ULTRAFRESH treatment which we apply to the polyurethane foam that, unlike other bacteriostatic products present on the market, exploits the natural ability of Silver resistant to the proliferation of bacteria, among the primary causes of asthma and allergy diseases, and mold, the main cause of bad odor and degradation. In this way it is possible to maintain high hygienic conditions and freshness of the polyurethane foam over time.

VPF-VARIABLE PRESSURE FOAMING is the production technology which, when foaming, uses vacuum and pressure as process variables, without uncontrollable external agents harmful to the environment, such as CFC/ HCFC, methylene chloride, CO₂, thus obtaining an eco-compatible and recyclable foam with water alone. CPS-CONTROLLED PREDISPERSION SYSTEM is the process of inserting microcapsules in the preparation of raw materials, thus creating polyurethane with a homogeneous distribution of micro additives in the cellular structure.



The recent collaboration established with the DEPARTMENT OF INDUSTRIAL CHEMISTRY AND MATERIALS - ALMA MATER STUDIORUM - UNIVERSITY OF BOLOGNA, has allowed us to perform a series of explanatory and comparative analysis of different types, to test and certify in a scientific and unambiguous way, the innovative features of Climafresh. These analyzes have confirmed the validity of Climafresh both from “thermal” and “hygienic” features point of view.



The multi-year collaboration we pride with PerDormire, the Italian leader in the production and sale of mattresses and pillows, present in over 30 international markets, has allowed us to develop this new and exclusive range of polyurethanes, also in thermo chromatic version, developed to meet the needs of having in a single product the “heat” benefits of the PCM and “hygienic” benefits of Silver.

