

DEVELOPMENT OF POLYURETHANE RESINS BASED ON RENEWABLE SOURCES: BIO-SERIES

LINEAESSE GROUP is aware of the environmental impact caused by the use of chemical products in production cycles and is constantly committed to minimising the release of chemical substances in the environment and to monitoring the risks connected with their use.

We are also committed to minimising the use of resources and energy when manufacturing our fabrics, favouring whenever possible the recovery of the materials used during production cycles and reducing the production of waste at the end of the product's life cycle.

Among all the different possibilities, we also considered the use of raw materials coming from renewable sources and we finally developed a new series of **bio-based polyurethane** coated articles.

Raw materials are coming from waste derived from a basic commodity production, particularly from plant origin, cultivation of rape, castor-oil, soy and corn.

This BIO-BASED PU consists of about **70% of renewable sourced raw materials** on the solid content of the final product.

The use of these raw materials allows to improve the impact of life cycle of the product as its impact is considered Carbon Neutral; the carbon dioxide generated during the production can be close to zero if we imagine the difference between the real data and the absorption of the plant during its life.

Moreover, if the raw material is present in a significant percentage and is biodegradable, there is also a better end of life of the product realized with the above-mentioned sources

It can also be easily noted that the use of raw materials coming from renewable sources allows to decrease the carbon footprint and the production of greenhouse gases during the realization of a product.

The objective for the future is to widen the range of bio-based PU series, proposing to the market solutions at the same performance level compared to traditional products, with specific attention to environment.