



## USE OF RECYCLED MATERIALS AND FACILITATION OF FINAL RECYCLING

### Recycled plastic and rubber

(percentage of recycled material is 100% from sources of post-consumer shredding residues):

- Reduces the environmental impact associated with mining and the production of virgin raw materials.
- The absence of heterogeneous components such as metals and Adhesives facilitates the separation and recycling of materials.
- Contributes to the circular economy, maintaining materials lifetime and reducing waste.



## ELIMINATION OF (HARMFUL) CHEMICAL RAW MATERIALS

### Absence of polyol and isocyanate

- Eliminates the use of polyurethane, reducing environmental impact related to the production and disposal of these substances.
- Improves safety for workers by eliminating exposure hazardous chemicals.



## REDUCTION OF TRANSPORT-RELATED EMISSIONS

### Less needs to transport dangerous materials

- Elimination of polyol and isocyanate reduces emissions generated by the transport of these substances.



## MORE EFFICIENT AND ENVIRONMENTALLY FRIENDLY PRODUCTION PROCESSES

### Heat sealing and ultrasonic welding

- Less energy-intensive processes than polyurethane production.
- Decreases direct emissions (Scope 1) related to internal production processes and indirect emissions (Scope 2) associated with the generation of energy consumed.
- Eliminates emissions and hazardous waste associated with use of chemicals.



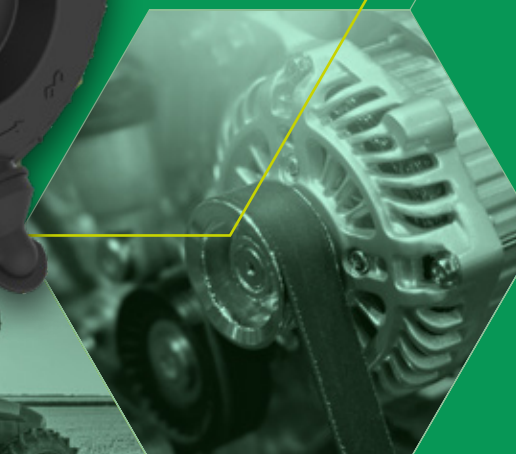
**VIRGIS FILTER SPA**  
Via Piovego 113  
35010 San Giorgio Delle Pertiche  
PADOVA / Italy  
Tel. +39 049 5742099  
Fax. +39 049 5742420

virgis.com



CREATIVE FILTRATION

# ECOLOGICAL FILTER



CREATIVE FILTRATION



# DESIGN FOR/FROM RECYCLING

The new product was designed with optics of **eco-design**, using a strategy of Design for/from Recycling (DfR). This improvement manifests itself through several innovations that **reduce the environmental impact** at every stage of the product life cycle. In particular, the reduction of the **Carbon Footprint** is achieved thanks to lower CO<sub>2</sub> emissions at all stages, from production, through the supply chain and transport, to disposal.



## ELIMINATION OF WIRE MESH

### Reduction in the use of metals

- Reduces the environmental impact associated with extraction, to the processing and transport of metals.
- Reduces the overall weight of the product, potentially reducing emissions during transport.

### Replacement with recycled plastic nets

- Facilitates recycling of the filter at the end of its life thanks to more homogeneous materials.



## IMPROVED HEALTH AND SAFETY

### Elimination of harmful chemicals

- Reduces health risks for workers during production.
- Improves working conditions, contributing to a safer environment

Polypropylene with **100% recycled polymer**



# MANY QUALITIES, ONE PRODUCT

