

100% EFFECTIVE CIRCULARITY

Reduce: Maximum reduction of weight: Lightweight, weighs less than common trigger sprayers.

Reuse: The spraying performance has been optimized so that the spray pump is more efficient and effective than the previous model.

Recycle: Spray head, including dip tube, completely recycable and, worldwide, the first made in part with post-consumer recyclate (PCR of 29%).

honored with the **German Packaging Award**



Evaluation of the Jury:

The circular economy is a challenge when it comes to complex functional parts such as spray heads. These contain many individual parts that must be precisely coordinated with each other. The **complex technical requirements** are usually solved using different materials. Werner & Mertz and Berry Global have succeeded through consistent design in developing a spray head that is made of over 97% PP. At the same time, it is 18% lighter on average than the market standard. The functional parts have a post-consumer recycled content of 29%. It is noteworthy that the design compensates for the drawbacks of the PCR material, so that the customer can use it just as easily. The screwable spray head also means that the spray bottle is refillable.

Research & Development in Record Time:

Werner & Mertz in cooperation with Berry Global developed the innovation in record time of just two years.

The starting point for conventional triggers

- Made of virgin plastic
- Composed of different types of plastic
- Piston and cyclinder with ideal gliding properties
- Specially adapted to production with injection molding process

New spray head:

- Technical innovation: Use of smallest possible amount of homogenous material (polypropylene, PP) conserves resources and increases recyclability
- Completely novel design: Maximum use of recycled content with the same durability
- Compact shape: Pump technology with adjustable pre-compression in smallest amount of space
- Modular construction: Spraying and/or foam spraying possible

Now in retail market:

All **Frosch**[®] cleaning product bottles will be equipped successively with the new spray head.

- Share of polypropylene: 97.6%
- Share of polyethylene: 2.4%
- Both polymers are classified in the same group and can be mixed for **recycling purposes**.
- Share of PCR in the spray pump: 29.3%
- Share of PCR in 500-ml bottle + spray pump: 74.1%

Already an award winner!



SUSTAINABILITY WINNER 2022

