

AUGUST 4, 2022

Previero – Sorema Wet Grinder for Po Blown Film Washing & Recycling Plant



At the upcoming K 2022, which will be held from 16 to 26 October in Düsseldorf, SOREMA will be present with PREVIERO, in Hall 9 stand D29 - D55.

SOREMA is a technology leader in the sector of sorting, grinding, washing and recycling plants for PET bottles (B2B) and PE/PP films (F2F). The company's roots go back a hundred years with its parent company PREVIERO.

SOREMA's Upcycling concept encompasses the suitability of a given packaging to replace virgin polymer in its production in increasing percentages with a post-consumer or post-industrial collection material that, after an appropriate recycling process, is available on an industrial scale.

SOREMA offers systems starting from 600 kg/h up to the largest 9.000 kg/h. SOREMA's mantra "high quantity & high quality", for the upcycling of post-consumer film, includes the PREVIERO wet grinding modules consisting of: Wet granulator + Transport screw + Washing centrifuge.



The module's wet grinders grind the film to a size that guarantees the best yield with a limited production of PE fines, so that the subsequent washing, drying and extrusion operations benefit from working with a constant, reduced material size, resulting in a significant final reduction in energy and water consumption. During the grinding process, the machine generates high friction on the surface of the material by opening and removing a huge amount of contamination due to the high mass flow of water. This solution has an effective ability to clean material that is quickly separated from water by the centrifuge. This solution offers a better quality of polymer recycling than solutions based on a single dry shredder, in terms of greater cleanliness and less wear and tear on machine components.

We show here as an example the wet grinding module based on three components:

- MU920PRH grinder with rotor ϕ 850 x 2000 mm for size reduction of material and high friction in water
- Dewatering screw SCW30: to transport the material to the washing centrifuge (not visible in the photo)
- Washing centrifuge WCE2000: a centrifuge to remove the smallest contamination with water.