



PET PLASTIC RECYCLING PROCESS

01



Collection

The first step in the process of plastic PET recycling is the collection of used PET bottles from the network of suppliers in the recycling chain.

02



Sorting

Once collected, the PET bottles are sorted based on their color and quality. Contaminants such as caps, labels and other types of plastics are removed to ensure the purity of the PET material.

03



Shredding

The sorted PET bottles are then shredded into small flakes. This helps in increasing the surface area exposed during cleaning to ensure the best quality product.

04



Washing and Drying

The shredded PET flakes undergo a rigorous 6-step washing process to remove any impurities or residues. This step is crucial to ensure the quality of the final recycled PET product.

05



Melting and Pelletising

The clean PET flakes are then melted and extruded into small pellets. During the pelletising process, under vacuum and heat, 99.8% of impurities and contaminants are removed, resulting in food grade FDA and EFSA approved pellets. These pellets can be used as raw material for manufacturing various products such as textiles, food packaging materials and more.

06



Testing and Quality Control

The PET flakes and pellets are stringently tested to ensure compliance with the customer's specifications and regulatory standards, prior to shipping.