

Polyester staple fiber:

Just one plastic raw material and product feed to many types & sorts of Industries like Plastics, Re-cycling, Textiles, Conversion, Toy-industry, Auto-Industry, Highways and Reservoir dam construction industry, all these can be inter-related in some ways. Let us see.

Plastics' re-cycling business:

All PET bottles to be re-cycled first [Re-cycling] and converted in to PET Flakes and then to PET strings. There can be capacities for this re-cycling business.



The PET Flakes look as below.



2) Conversion of above:

In to PET straps



In to PET Quilts and Blankets



In to Filling for Soft toys:



in to Polyester staple fiber:



Which is then used to make:

Needle punched non-woven carpets for Automobiles, Exhibitions, red-carpets, many sort of under-lays et-cetera:



Polyester Staple Yarn: Which is further converted in to Polyester Fabric



Underlay needle punched Fabrics for Reservoirs and Highway construction:



All the above can start with collection of Used and thrown bottles, major thanks to rag pickers, Nation-wide and also form all sorts of PET Waste generating sources. All the following contribute to the supply of raw material:

- Used Water bottles
- Medicine bottles
- Hard drinks' bottles
- PET jars from kitchen and Water Jars
- PET Lumps and popcorns from Polyester plants and Polyester film making lines
- Used/ scrapped X-Ray films
- PET Easte Filaments
- All sorts of PET Waste and scrap.

In case readers are interested to going in for such / one such project /s, please note that these are all inter-related and still different projects and business and investment in to such project/s differ from Size to type of industry. BUT all of them have high potential for INDIA. Check the following data:

Whatever polyester is collected as scrap and waste, **71.43 %** is converted in to polyester staple fiber worldwide.

Worldwide use of polyester is at **18% of total plastics**, whereas polyethylene is at 33.5 % and PP is at 19.5%. Thus, **polyester is at third largest use.**

And

Conversion of PET scrap in to textile products:

Polyester staple fiber to fabric and then to yarn and then to fabric does not need any chemical nor much of water to make them colored. [Textiles otherwise use lot of color / dyes/ water /chemicals...] and so PET Conversion is environment friendly, over and above PSF is re-cycled product, again environment friendly.

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