



Bottle of TODAY Yarn for TOMORROW

RECYCLED

- PET Bottle Flakes
- PCR rHDPE Granules
- Polyester Staple Fibers
- Polyester Filament Yarns (POY / FDY / DTY / ATY / ACY)
- Polyester FDY Ropes
- Polyester Fabrics

www.alliancefibres.com

Greenf Recycle for better Tomorrow

CERTIFIED BY













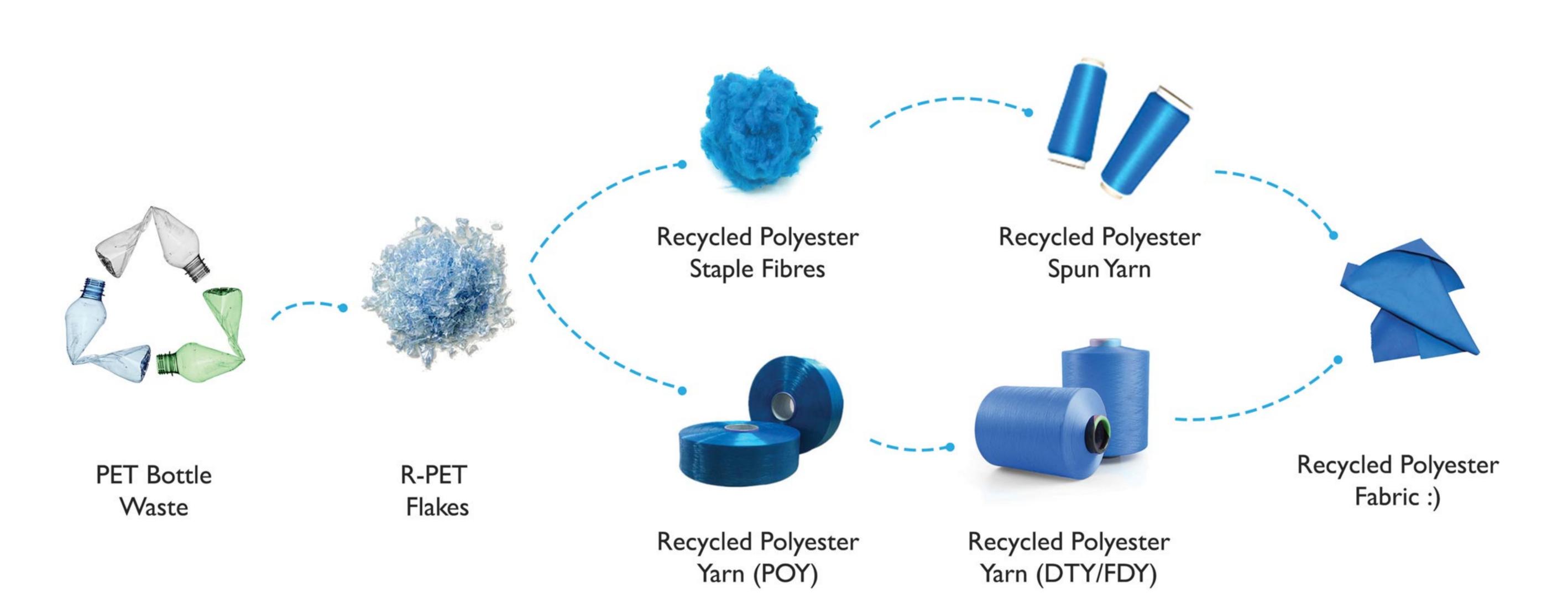








THE GREENFIL WAY



What is Greenfil Way?

GreenFil is the official sustainable brand of Alliance Fibres Pvt Ltd. It symbolizes the product which is made by ethical recycling of post consumer PET bottles which are damaging the nature and earth eco-system by polluting to the land, rivers and oceans.

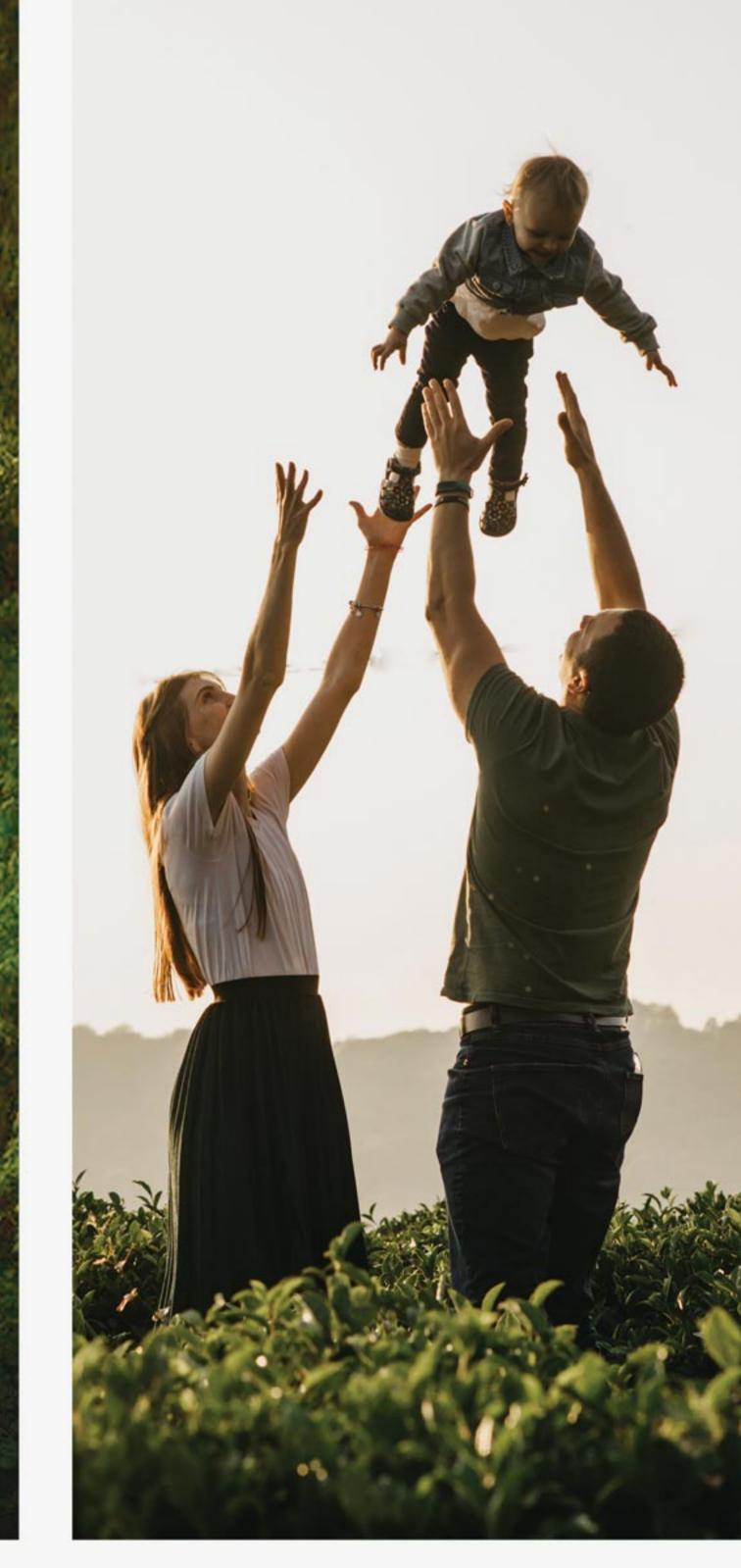
We collect such bottles with the help of waste management supply chain partners and converting such wastes into the wearable green textile products. The way of converting waste into the sustainable products is defined as GREENFIL WAY.

The GREENFIL Products Range:

- I. r-PET FLAKES
- 2. PCR rHDPE Granules
- 3. RECYCLED POLYESTER STAPLE FIBRES
- 4. RECYCLED POLYESTER FILAMENT YARNS (POY / DTY / FDY / ATY / ACY)
- 5. RECYCLED PET FDY TWISTED ROPES
- 6. RECYCLED POLYESTER FABRICS (WOVEN / KNITTED)











STRIVING FOR SUSTAINABLE GROWTH

Alliance Fibres Ltd was established in 2006 as INDIA's Third PET Recycling Plant for the cause of sustainability.



Recycling
5 million+
Bottles/day



Saving

6 yards Space

by recycling 1MT PET Waste



Conserves

3.8 barrels oil

by recycling 1MT PET Waste



Reducing

Carbon Footprint

by recycling PET waste



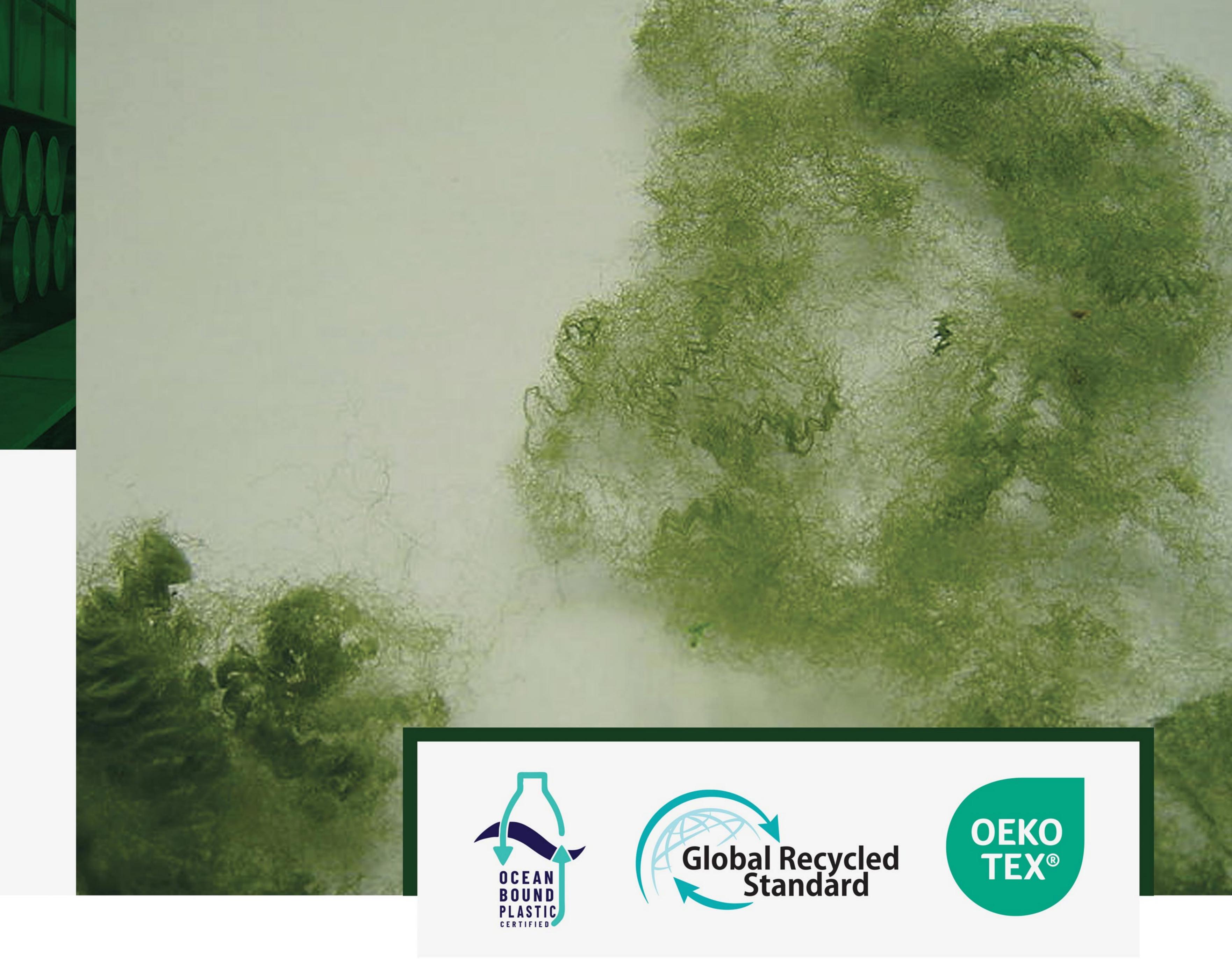


Polyester Staple Fibers

We are leading manufacturer and exporter of regenerated Polyester Staple Fibers in India. With the world class state-of-art technology and technical knowhow, we are maintaining very high-quality standards in fibers that give consistency in quality, better efficiency and operational benefits in the forward Integration processes. Our Annual Production Capacity for Polyester Staple Fibres is 27,000 MT.

Our Products

- I. Solid Fiber
- 2. Trilobal Fiber
- 3. Hollow Mechanical Fiber (Siliconized / Non-siliconized)
- 4. Hollow Conjugated Fiber (Siliconized / Non-siliconized)
- 5. Dope Dyed Fiber
- 6. Speciality Fiber (Anti Microbial / Fire Retardant / etc.)



Product List

CROSS-SECTION	DENIER	SHADE	GPD	TYPE	BALEWEIGHT	APPLICATION
SOLID	I.2D/I.4D/I.5D/2D	N.W / O.W / S.O.W / D.D.B	> 6.0	Non-Siliconised	300 KG	Spun Yarn, Stitching
SOLID	I.2D/I.4D	N.W / O.W / S.O.W / D.D.B	> 5.5	Siliconised	280 KG	Fur Fabric, Filling for Toys
SOLID	3D/6D/7D/15D/25D/40D	N.W / O.W / S.O.W / D.D.B	3.5 to 5.5	Non-Siliconised	300 KG	Non-Woven, Automotive, Filtration, Wadding, Geo-Textiles, Medical
TRILOBAL	2.5D/4.5D	N.W / D.D.B	> 5.5	Non-Siliconised	300 KG	Spun Yarn
HOLLOW MECHANICAL	3D/6D/7D/15D	N.W	N/A	Siliconised & Non -Siliconised	250 KG to 275 KG	Home Furnishing, Scrub Pad, Winter Jacket
HOLLOW CONJUGATED`	3D/6D/7D/15D	N.W	N/A	Siliconised & Non -Siliconised	230 KG to 260 KG	Filling, Wadding, Filling for Toys

Spun Yarn

For Ring Spinning system, 1.2 dn to 3 dn Solid PSF in various cut length is offered in O.W, S.O.W, D.D.B & Dope-Dyed colors to make spun threads for weaving & Stitching applications.



Geo Textiles

Usually, Solid Staple Fibres of 3dn, 6dn & 15dn are used for making Geo-Textile membrane fabrics which is used to reinforce soil & prevent it from damage. Mostly, Geo Textiles used in Construction of Roads & Dams.



Insulation

For insulation, polyester low melt bonder fibre is blend with other type of fibres to make insulation layers. However, with a certain mix of hollow fibres, insulation as well as resilience can be improved.

Hygiene Wear

PSF by adding special masterbatches such as anti microbial, anti bacterial, anti-odor are used to make Medical Cloths, Diapers etc.



Filtration Industry

Normally 1.5dn to 6dn fibres are used in filtration industry for various end use.



GIABORE Recycle for better Tomorrow

Applications of Recycled Polyester Staple Fibres



Artificial Fur Fibres

Normally, solid siliconised fibres are used to make artificial fur fabrics for making soft toys, blackest, nags & other fabrics.



For Automotive applications, we are offering PSF in a number of dope dyed shades in the denier ranges from 3dn to 15dn.



Scrub Pad

Special Harsh feeling Staple fibres of 15dn, 25dn & 40dn are used to make scrub pads for scratch free cleaning of stainless steel and other metal utensils.



Cushion, Pillows & Home Textiles

Because Firmness & good resilience is required for filling of cushion, pillows, duvets, quilts, toys and many other products, we have special hollow fibres with Non silicon & silicon finish to give nice touch and feelings.

Wadding

A polyester fibre blended with a bicomponent low melt, or chemical bond, is used to produce high loft wadding. The fibre used is normally a solid fibre. Depending on the application, hollow or hollow conjugated fibre also recommended.









22+26+

Industries

Countries





RECYCLED Partially Oriented Yarn (POY)

Polyester Partially Oriented Yarn, commonly known as POY, is the primary form of the Polyester Yarn. POY is mainly used in texturizing to make textured yarn, also known as Polyester Draw Textured Yarn. POY can also be used in draw warping for weaving & warp knitting of fabrics.

POY Yarn is available in different luster like Semi-dull & Bright. POY yarn is mainly available in Raw White color. We also make recycled dope-dyed POY yarn by adding master batch in the spinning process. As on today, total production capacity of POY yarn is 14,000 MT. In future, we are planning to install more lines of POY.



"GreenFil POY yarn is made out of 100% PET Flakes as the raw material making it eco-friendly yarn"









Product List

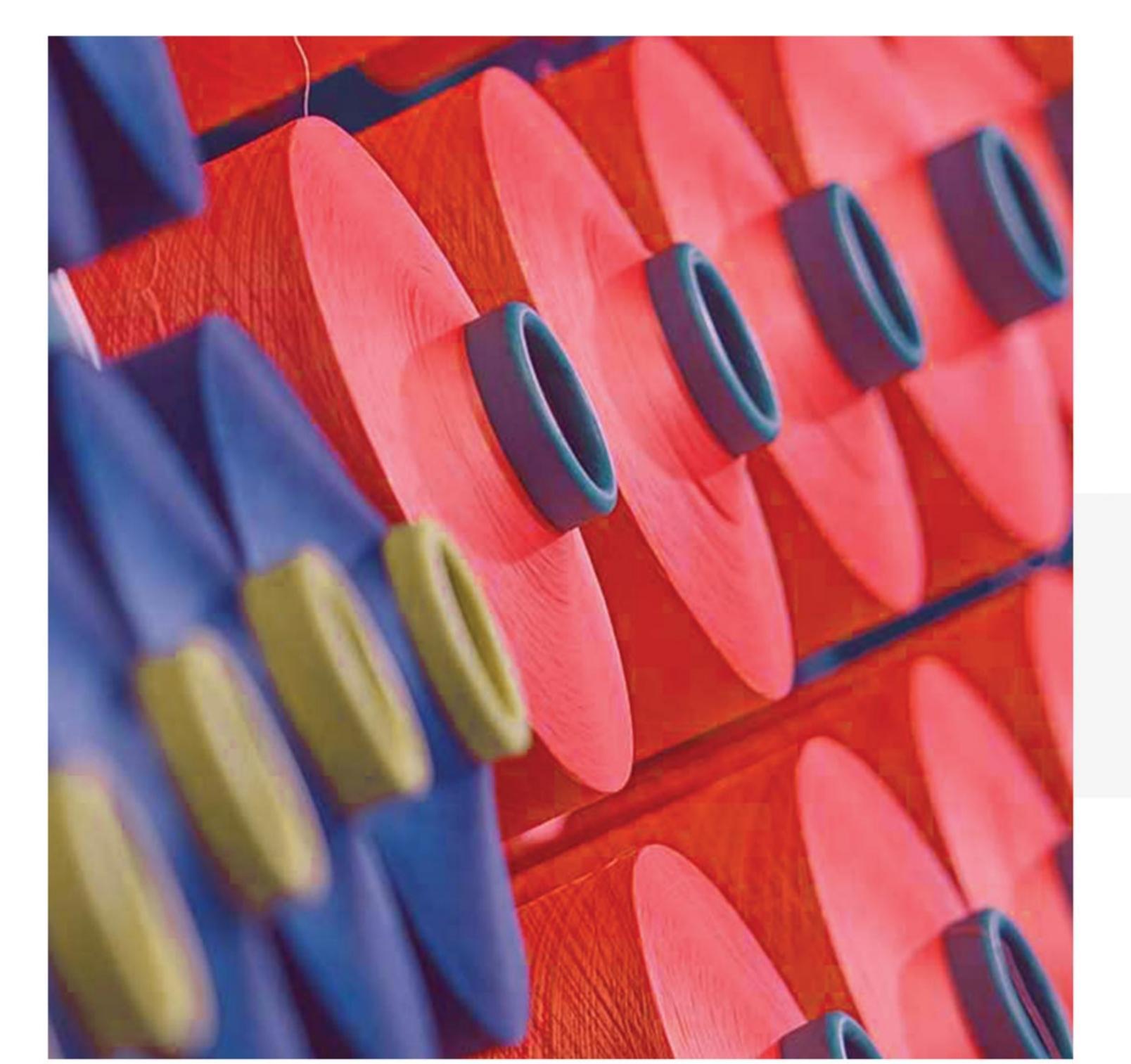
LUSTER	DENIER	FILAMENT	GPD	ELONGATION %	USTER %	SPOOL WT.
BRT / SD / DDB / DD	80	24 / 36 / 48	2.5±0.2	130±5	≤ 2.5	I0 KG
BRT / SD / DDB / DD	125	36 / 48 / 72	2.3±0.2	135±5	≤ 2.5	I0 KG
BRT / SD / DDB / DD	160	36 / 48 / 72 / 96	2.3±0.2	135±5	≤ 2.5	I0 KG
BRT / SD / DDB / DD	250	48 / 72 / 96 / 108 / 144	2.2±0.2	140±5	≤ 2.5	I0 KG
BRT / SD / DDB / DD	330	48 / 72 / 96 / 108 / 144	2.2±0.2	140±5	≤ 2.5	10 / 20 KG
BRT / SD / DDB / DD	500	72 / 96 / 108 / 144	2.2±0.2	140±5	≤ 2.5	10 / 20 KG
BRT / SD / DDB / DD	700	144 / 192 / 216	2.2±0.2	145±5	≤ 2.5	20 KG

* DENIER ± 2%, M.O.Q: 5 MT

We can also develop special yarns of customized color & denier on request.

RECYCLED

Draw Texturized Yarn (DTY) Fully Drawn Yarn (FDY) Air Textured Yarn (ATY) Air Covered Yarn (ACY)



Recycled Polyester DTY yarn is mainly used in weaving & knitting of fabrics for making clothes, home furnishing, seat covers, bags and many other applications.

Technical Property of DTY yarn can be moulded in several ways to make the yarn suitable for its vast applications.



"Greenfil DTY yarn is obtained by using world-class recycling technology to convert PET waste into the Best"



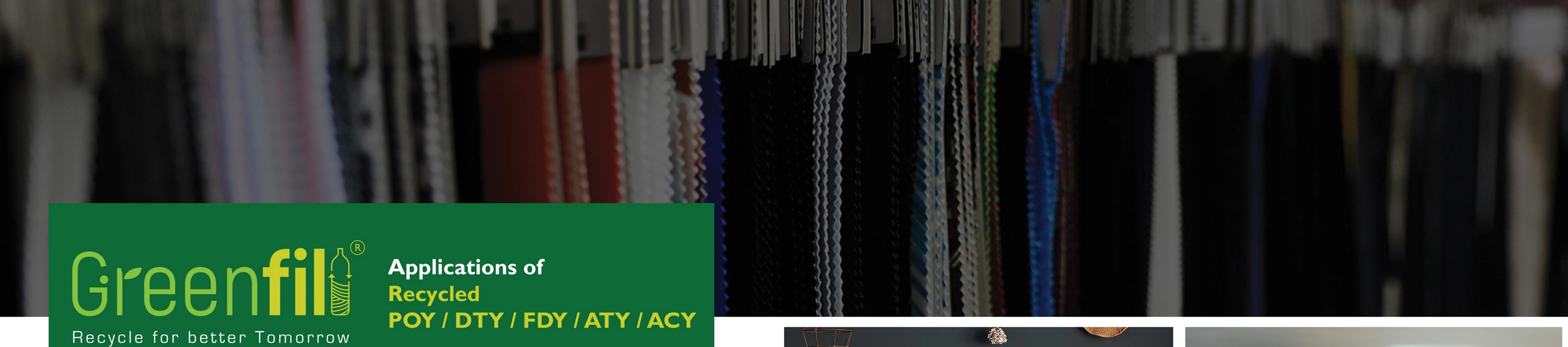
Manufacturing of Recycled Polyester Yarn has approx. 60% less CO₂ emissions compared to Virgin Polyester Yarn.

Product List

LUSTER	DENIER	FILAMENT	GPD	ELONGATION %	SHRINKAGE	SPOOL WT.
BRT / SD / DDB / DD	50	24 / 36 / 48	> 3.7	22 ± 4%	2.8 ± 0.5	2.5 / 5 KG
BRT / SD / DDB / DD	75	36 / 48 / 72	> 3.7	22 ± 4%	2.8 ± 0.5	2.5 / 5 KG
BRT / SD / DDB / DD	100	36 / 48 / 72 / 96	> 3.9	25 ± 4%	2.8 ± 0.5	2.5 / 5 KG
BRT / SD / DDB / DD	150	48 / 72 / 96 / 108 / 144	> 4.0	22 ± 4%	3.0 ± 0.5	5 KG
BRT / SD / DDB / DD	200	48 / 72 / 96 / 108 / 144	> 4.0	22 ± 4%	3.0 ± 0.5	5 KG
BRT / SD / DDB / DD	300	72 / 96 / 108 / 144	> 3.8	24 ± 5%	3.5 ± 0.5	5 KG
BRT / SD / DDB / DD	450	144 / 192 / 216	> 3.8	24 ± 5%	3.5 ± 0.5	5 KG

^{*} Denier ± 3%, * O.P.U - 1% To 2.5% Depending On Denier & End Use, M.O.Q: 5 MT

^{*} Nips - 60 To 120 Points Depend Upon The End Use, * Intermingling - NIM / LIM / HIM



Our GreenFil Yarn has special characteristics:



Natural Look



Controlled Elongation



Dyeable



protected

Industries in which our GreenFil yarn can be effective:



Garments



Technical Wears



Wears



Performance



Automotive **Applications**



Bedding & Bathing



Elastic Tapes & Labels

Our GreenFil Yarn has wide range of applications:

- Weaving & Knitting Fabrics
- Garments Inner & Outer
- Stitching Threads
- Home furnishing
- Elastic Tapes & Labels
- Footwear
- Zipper
- Socks

- Seat Covers
- Sportswear & Swimwear
- Carpets & Rungs
- & many more...

















PESFDY TWISTED ROPES



 Alliance Fibres Pvt. Ltd.®, located at Surat (INDIA), is manufacturing premium quality r-PET Polyester Ropes – 3 Strand Twisted & Braided Ropes since 2015. Greenfil® is the sustainable brand of Alliance Fibres Ltd®. Greenfil® products are made out of 100% post-consumer PET bottle waste which is converted into the premium quality Polyester multifilament yarns through the state-of-art recycling technology to make r-PET Ropes. We are GRS (Global Recycled Standard), OBP (Ocean Bound Plastic) and ISO 9001:2015 certified organization. Our Polyester Rope is also certified with IS: 11066:2014 standard.







YELLOW





Development of Special Colors on Request

 PES FDY Ropes are characterized by their excellent resistance to weather conditions and excellent abrasion resistance. They remain flexible and soft even when wet.

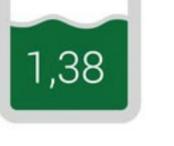
SPECIFICATIONS

IS 11066:1995

Size (mm)	Lay (mm)	Running Meter mtr/kg	220 METER Wt.(kg)	Breaking Load (kgf)
3	9	10		150
4	12	14		290
5	15	20		350
6	18	25		554
8	23.2	43.2	9.5	1000.0
10	29	68.2	15	1560.0
12	34.8	97.7	21.5	2230.0
14	40.6	131.8	29	3120.0
16	46.4	159.1	35	3980.0
18	52.2	209.1	46	4980.0
20	58	259.1	57	6230.0
22	63.8	313.6	69	7470.0
24	69.6	354.5	78	8960.0
26	75.4	422.7	93	10500.0
28	81.2	510	112.2	12000
30	87	579.7	127.53	13400
32	92.8	661.3	145.49	15400
36	104.4	834.7	183.63	19000
40	114	1215	267	23500



Chemically Resistant



Sink in Water





FEATURES

- Excellent Resistance to UV Rays & Water
- Controlled elongation
- Excellent Dry & Wet Strength Retention
- Longer Service Life
- Good Knot Holding Property
- Soft touch
- Good handling

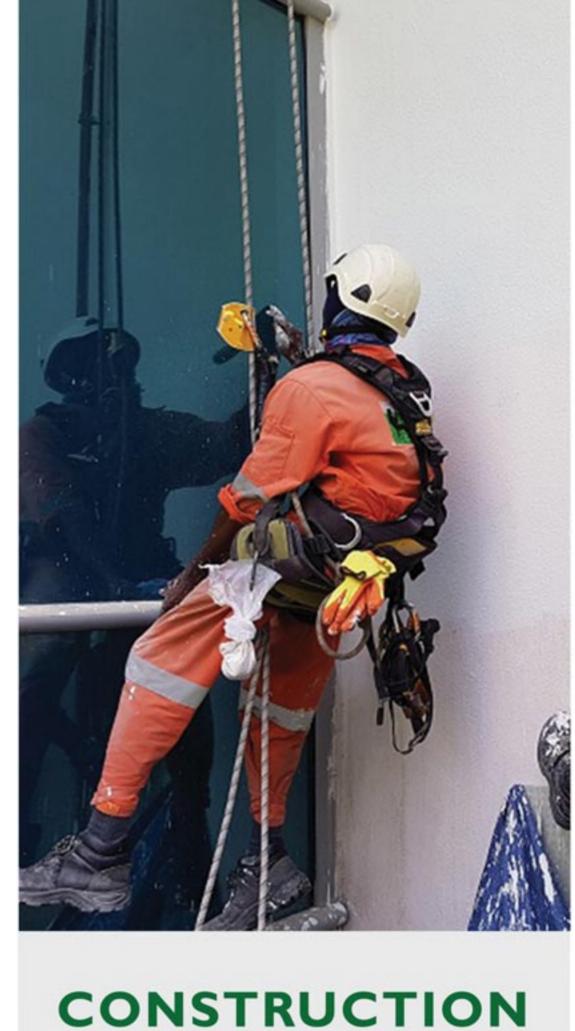


APPLICATIONS OF PES FDY TWISTED ROPES

- Marine Mooring & Anchoring
- Fishing Industry
- Transportation Industry
- Lifting & Safety
- Sports Industry
- Agriculture Industry
- General Routine Applications













MARINE

COLORS

TRANSPORT

RED

POLYESTER BRAIDED ROPES

GOLD YELLOW

 We are also in the manufacturing of Braided Ropes from the 100% recycled polyester multifilament yarns. Braided Ropes can be used in a multiple application.



SIZES 8, 10, 12 mm PACKAGING COIL / HANK

FLUOR GREEN

Agriculture | Decoration | Cattle Rope | Cloth Lining



WHY CHOOSE US?

 Fully certified PCR rHDPE granules that can be traced and adhere to all necessary certifications. Our range primarily consists of PCR rHDPE granules suitable for blow and injection applications. At our facility, all PCR HDPE is subjected to a thorough hot washing process before undergoing polymer sorting to ensure the highest purity of HDPE content. We are able to provide PCR rHDPE granules with various MFI values.



High Strength & Stiffness



High Rigidity & Durability



Light Weight



UV resistance



Low Carbon Footprint



Circular Economy



Recyclable



Hardness

CERTIFICATIONS











PRODUCT SPECIFICATIONS

Sr No	Property	Test Method	Unit	Typical Value
1	Density (23°C)	ASTM D 1505	g/cm³	0.95 ± 0.02
2	MFI (190°C / 2.16 kg)	ASTM D 1238	gm/10 min	1.5, 2
3	Tensile Strength at Yield	ASTM D 638	MPa	22 ± 5
4	Elongation at Break	ASTM D 638	%	450 ± 100
5	Flexural Modulus	ASTM D 790	MPa	900
6	Hardness	ASTM D 2240	Shore D	69
7	Vicat Softening Point	ASTM D 1525	C	128
8	Ash Content	ASTM D-5630	%	<0.20
9	Moisture Content	EW-WI/QC/FGQC/17	%	<0.20

APPLICATIONS







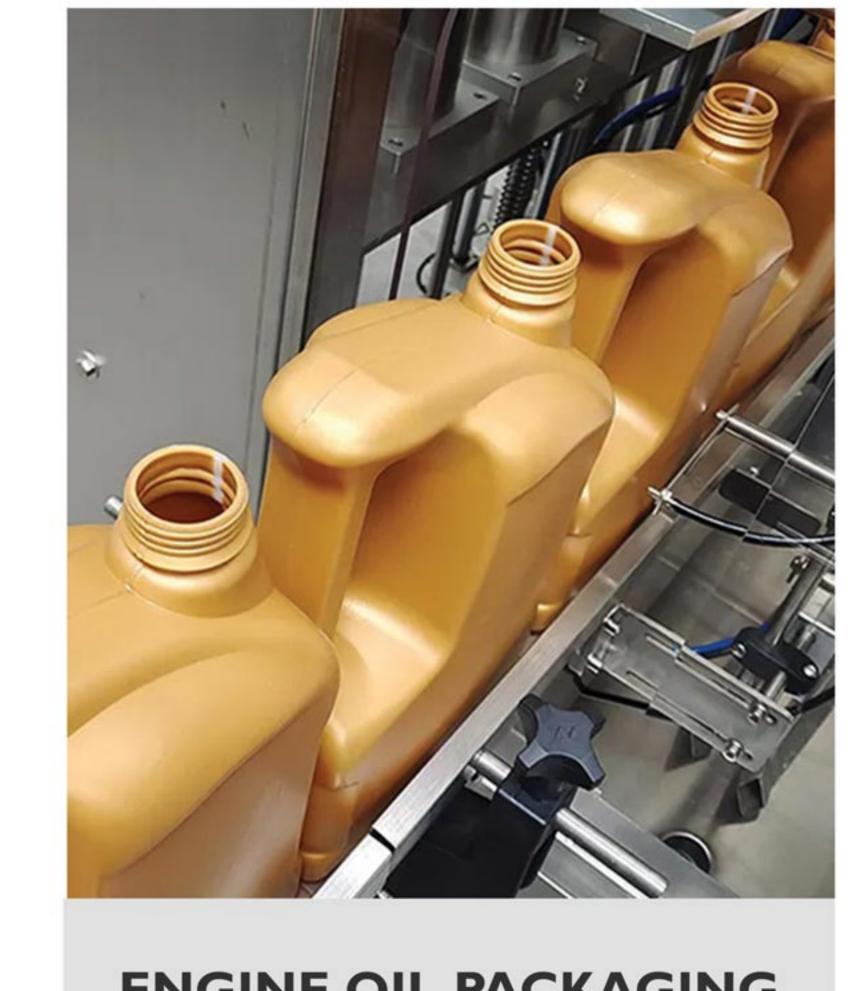
CAPS AND CLOSURES



CRATES



PALLETS



ENGINE OIL PACKAGING



OIL PRODUCT PACKAGING

Recycled r-PET Flakes





Recycled Fabrics (Woven / Knitted)





- We are manufacturing high quality premium grade recycled PET Flakes from the PET Bottle Waste. Our annual production capacity for r-PET Flakes is 45,000 MTA. We are using state-of-art German make technology i.e. Precision Grinder, Bottle Sorter & Flake Sorter to produce flakes for high end application such as bottle-to-bottle & PET Sheet manufacturing. We maintain continuous quality parameters with minimum contaminations. Our 100% Crystal Flake is being exported to the European, North American Markets and Gulf countries.
- We provide cosistent quality with the help of dual automatic bottle sorter, manual sorting as well as a final check with an automatic laser sorter.
- Our r-PET Flakes is REACH compliant. We can do REACH Test on lot-to-lot basis based on customer requirement.



TECHNICAL DATA SHEET

Sr No	Test Characteristics	Grade/ Specification	Unit
I	Intrinsic Viscosity	0.74 - 0.80	dl/gm
2	Melting Point	250-260	°c
3	PVC	< 10 PPM	PPM
4	PVC Hard Paper	< 10 PPM	PPM
5	OTHER (Rubber, PC, PP, HDPE, LDPE, Wood, Stone)	< 10 PPM	PPM
6	Metal	< 2 PPM	PPM
7	Moisture	< 1 %	%
8	Bulk Density Flekes	Min. 270 - Max. 350	Kg/m³
9	Caustic	< 02	PH
10	Ash	< 0.05%	%
11	Flakes Size	Nominal 3mm-12mm	MM
12	Fine(<1 mm)	< 0.05%	%
13	Flakes Content Small(<3 mm)	Max. 2%	%
14	Flakes Content Oversized(>12mm)	Max. 4%	%
15	Product Temperature	Min. 15 - Max. 60	°C
16	Base Content Flakes(PH-Value in De-ionized Water PH 6.5 to 7.5)	< 8	
17	Residual surface contaminantsicluding glue, wash chemicals	Max. 20	PPM

Storage conditions:

No exposure to direct sunlight. Storage temperature 30°C.

We recommend the flakes be used within 6 months to assure the properties.

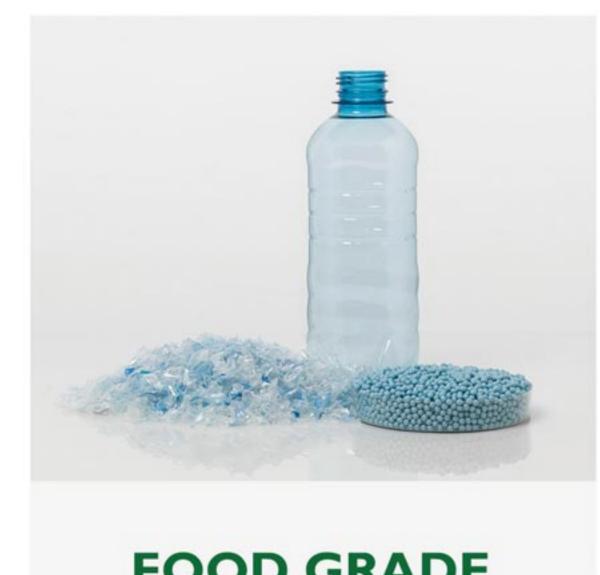
TYPES

- a. Crystal Clear r-PET Flakes
- b. Green r-PET Flakes

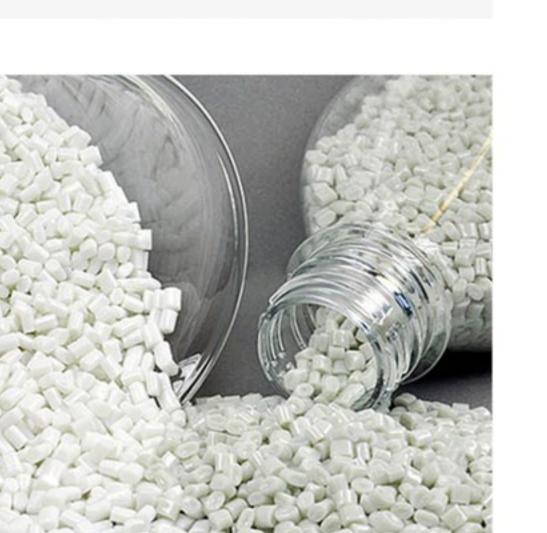
PACKAGING

Jumbo Bags on Pallet(500kg/1000kg)

APPLICATIONS







CHIPS FOR RPET YARNS / FIBRES



PET SHEET

& TRAY

PET STRAP FOR PACKAGING

TYPES





Certifications. We do only customized fabrics production based on the brand/client requirements.



• We are now producing recycled fabrics from our own recycled polyester yarns. It is made from state of art technology, The

production of knitted & woven fabrics are being done at our approved & accredited vendors who are having GRS & OBP

Knitted

APPLICATIONS

- Clothing
- Furnishing
- Accessories
- Shoes
- Pet Products
- Outdoor Gears



SUSTAINABLE **ACCESSORIES**



SUSTAINABLE APPARELS



SUSTAINABLE **SPORTS WEAR**

Our Certifications



 At Alliance Fibres Pvt Ltd, we take our responsibility to all of our partners seriously, which is why we have implemented an Integrated Management System to ensure the highest quality and reliability. Our products have been certified by international organizations as a testament to their excellence.























Corporate Office: Plot No. 1,2,7 & 8, Block No. 203P, Mota Borasara, Kim, Tal - Mangrol, Dist. Surat, Gujarat (INDIA) - 394110





PLANT ADDRESS

Plot No. 1,2,7 & 8, Block No. 203 & 208, Mota Borasara, Kim, Tal - Mangrol, Dist.

Surat, Gujarat (INDIA) - 394110

TEL

+91 2621 297 007 / +91 93756 22002

EMAIL

info@alliancefibres.com

WEB

www.alliancefibres.com

SCANTO VISIT WEBSITE



PLANT

ADDRESS

Block No. 214, Mota Borasara, Kim, Tal - Mangrol, Dist. Surat, Gujarat

(INDIA) - 394110

TEL

+91 93277 83414 / +91 99133 57965

EMAIL

info@alliancerecpet.com

WEB

www.alliancerecpet.com

SCANTO VISIT WEBSITE

