



NORTHERN ECOSPHERE (INDIA) PVT LTD

Formerly known as (Northern India Ecotech)

– Quality • Innovation • Sustainability –



Director's Massage

Parveen Goel
Founder & Director



"As I look back on our journey, I am filled with pride and gratitude. From humble beginnings to becoming a leading rPET product manufacturer and exporter, our company has come a long way.

I want to thank our valued customers, partners, and employees for their unwavering support and trust. Your loyalty and dedication have been instrumental in our success.

As we move forward, we remain committed to delivering exceptional quality, innovative products, and outstanding customer service. We will continue to invest in sustainable practices, social responsibility, and community development.

I am honored to lead this organization, and I am excited about the future. Thank you for being part of our story."

Sanyam Goel



Shagun Goel



"Don't Wait For Opportunity Create It"

Our New Generation Which Is Very Capable, We Give Opportunity To Such Candidates To Do A Lot Of Innovation So That They Can Se Their Skills Well Or Make Some Good Work,

ABOUT US

Northern Ecosphere (India) Pvt Ltd

We are the manufacture of rPET flakes natural, colored and rPSF, product's of wide ranges for the uses of spun yarn, Non woven, Fibre fill and other applications, our Production capacity is 250 TPD of rPET Flakes and 250 TPD of rPSF of versatile ranges for different applications. We also producing specialty fibers, like , micro denier solid, dope dyed, Hollow 2 dimensional regular, Hollow conjugated 3 dimensional fibre, silicone semi silicon and non siliconized.

We also involves to produce rPOY, rFDY, and DTY of various categories to meet the customer requirements of home textile, Non woven, carpet, and related industries.

Recycled rPET Flakes



- We are manufacturing high quality Premium grade re-cycled pet flakes from the pet bottle waste. Our production capacity for r-PET flakes is 250 TPD. We are using german make technology bottle sorter and flakes sorter to produce flakes for high end application such as b2b grade. we maintain continuous quality parameters with minimum contaminations with 100% Clear Transparent r-PET Flakes.
- We provide cosistent quality with the help of dual automatic bottle sorter manual sorting as well as final check.
- We can do REACH test on lot to lot basis based on customer requirement.

Types

- Clear Transparent r-PET Flakes
- Green rPET Flakes
- Multi-Color rPET Flakes

Packaging

Jumbo Bags on Pallet
(500kg / 1000kg)

Technical Data Sheet

Sr.No.	Properties	Unit	Result
	Impurities Level		
1	PVC	PPM	02 PPM
2	PC	PPM	Nil
3	Metal	PPM	Nil
4	HDPE / LDPE	PPM	Nil
5	Wrapper	PPM	04 PPM
6	Rubber	PPM	Nil
7	Other	PPM	04 PPM
	Total Contamination	PPM	10 PPM
	COLOUR		WHITE
1	Light Blue	PPM	8 PPM
2	Light Yellow Content	PPM	842 PPM
3	After Heating 160 °c Yellow flakes	%	0.38%
4	Opaque Flakes	PPM	10 PPM
	Other Paramerters		
1	Caustic Content	PPM	4 PPM
2	PH Value		<8 ±1
3	Bulk Density	kg/m ³	300 kg/m ³ To 350 kg/m ³
4	Ash Content	PPM	156 PPM
5	Flakes Size	MM	2 to 12mm max
6	Fines (2 mm)	%	1.0 ± 0.20
7	IV (Intrinsic Viscosity)	dl/gm	0.720 ± 0.02
8	Melting Point	° C	255 ° C
9	Moisture	%	0.8%



Storage Condition

- No exposure to direct sunlight. storage temperature 30°C.
- We recommend the flakes be used with in six months to assure the properties.

Recycle Polyester Staple Fiber

Northern Ecosphere (India) Pvt Ltd produces high-quality polyester staple fiber from recycled materials, with high end Technology.

100%

of our staple fiber and r-PET certified by GRS and RCS.



Enhance

staple fiber with performance & technologies.



Fiber for Conventional Spinning

Staple fiber is a non-continuous fiber of relatively short length that can be twisted together for spun yarns.

Produced - **India**

Comes in **rPET / rPSF**

Enhance with Northern Ecosphere (India) Pvt Ltd

Fiber for Nonwoven Applications

Staple fiber is a non-continuous fiber of relatively short length that is engineered for nonwoven applications.

Produced - **India**

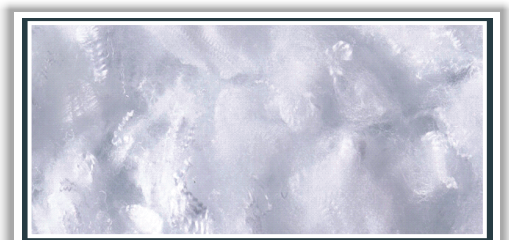
Comes in **rPET / rPSF**

Enhance with Northern Ecosphere (India) Pvt Ltd

Industrial Transportation

Variations Available in:

- Fiber for Insulation / Fiber Fill



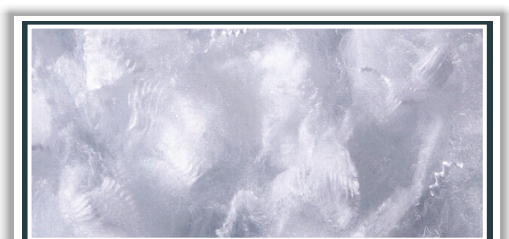
Fiber for Fiber Fill / Insulation

Staple fiber is a non-continuous fiber of relatively short length that is engineered for insulation and fiber fill.

Produced - **India**

Comes in **rPET / rPSF**

Enhance with Northern Ecosphere (India) Pvt Ltd



Polyester Staple Fiber

We are leading manufacturer and exporter of regenerated Polyester Sample 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 Sample Fibers is 250 TPD.

Our Products

1. Solid Fiber 0.9 - 20.0 den
2. Trilobal Fiber 2.0 - 4.5 den
3. Hollow Mechanical Fiber 2.0 - 20.0 den (Siliconized / Non-siliconized)
4. Hollow Conjugated Fiber 3.0 - 20.0 den (Siliconized / Non-siliconized)
5. Dope Dyed Fiber 0.9 - 20.0 den
6. Speciality Fiber 0.9 - 20.0 den (Anti Microbial / Fire retardant Flame retardant etc.)

Product List

CROSS-SECTION	DENIER	SHADE	GPD	TYPE	BALE WEIGHT	APPLICATION
SOLID	0.9D/1.2D/1.4D/1.5D/2D/6D/12D/15D/18D/20D	N.W / O.W / S.O.W / D.D.B	> 6.0	Non-Siliconised	300 KG	Spun Yarn, Stitching
SOLID	0.9D/1.2D/1.4D/1.5D/2D/6D/12D/15D/18D/20D	N.W / O.W / S.O.W / D.D.B	> 5.5	Siliconised	280 KG	Fur Fabric, Filling for Toys
SOLID	0.9D/1.2D/1.4D/1.5D/2D/6D/12D/15D/18D/20D	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	2.0D/4.5D	N.W / D.D.B	> 5.5	Non-Siliconised	300 KG	Spun Yarn
HOLLOW MECHANICAL	2D/3D/6D/7D/12D/15D/18D/20D	N.W	N/A	Siliconised & Non-Siliconised	250 KG to 275 KG	Home Furnishing Scrub Pad, Winter Jacket
HOLLOW CONJUGATED	3D/6D/7D/12D/15D/18D/20D	N.W	N/A	Siliconised & Non-Siliconised	230 KG to 260 KG	Filling, Wadding, Filling for Toys

Technical Data Sheet High Tenacity Fibre (Close to Virgin)

	Unit	0.9 Dn	0.9 Dn	1.0 Dn	1.0 Dn	1.2 Dn	1.2 Dn	1.4 Dn	1.4 Dn	1.4 Dn
DENIER	~	± 0.02	± 0.02	± 0.02	± 0.02	± 0.02	± 0.02	± 0.02	± 0.02	± 0.02
LUSTURE	~	Semi dull	Black	Semi dull	Black	Semi dull	Black	Semi dull	Black	Dope Dyed
CUT LENGTH	mm	± 2	± 2	± 2	± 2	± 2	± 2	± 2	± 2	± 2
TENACITY	gpd	6.60	6.10	6.50	6.10	6.40	6.10	6.40	6.05	6.10
TENACITY CV	%	8	8	8	8	8	8	8	8	8
ELONGATION	%	17	17	19	19	20	20	20	20	20
ELONGATION CV	%	18	18	18	18	18	18	18	18	18
CRIMPS	per inch	9 ~ 11	9 ~ 11	9 ~ 11	9 ~ 11	9 ~ 11	9 ~ 11	9 ~ 11	9 ~ 11	9 ~ 11
MOISTURE	%	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
FUSE FIBRE	%	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
FINISH	%	0.20	0.22	0.20	0.22	0.19	0.22	0.19	0.22	0.22

1. Spinning yarns for apparel textiles, Ne 8 - 60s, open-end or ring-spun.
2. It can be spun into yarns as 100% polyester or in blends with cotton, viscose or other natural and man-made fibres.
3. Very close to virgin prime grade PSF.
4. Cut lengths - 32, 38, 44, 51, 64, 76, 102, 128 mm.
5. Low Shrinkage fibre of less than 2.5% also available.
6. High Shrinkage fibre upto 70% shrinkage.

Sustainable Eco-Friendly Dope Dyed High Tenacity Polyester Staple Fiber

- An energy saving and environmental friendly product to reduce the pollution and waste water discharge in the textile industry.
- Excellent retention of fibre finish to ensure smooth and better productivity.
- Better washing/sublimation/sunlight fastness as compared to conventional solution dyeing.
- Uniformity in colour and reduce control risk of production process.

Dope Dyed Water Conservation during the dyeing process:

- No water is used in dope dyed process.
- Due to melt spinning method, chemicals are conserved.
- Low energy and water usage costs.
- Energy saving and carbon reduction.

R-PET Fiber (For Non - Wovens)



Waddings



Packaging



Acoustic Ceilings



Wipes



Carpets



Medical / Healthcare



Geotextiles



Hygiene Fabrics



Shor Lining / Slippers



Artificial Turf

Neppy Fibre (Short Cut Fibre)

Suitable For Slub/fancy Effect in Spun Yarn

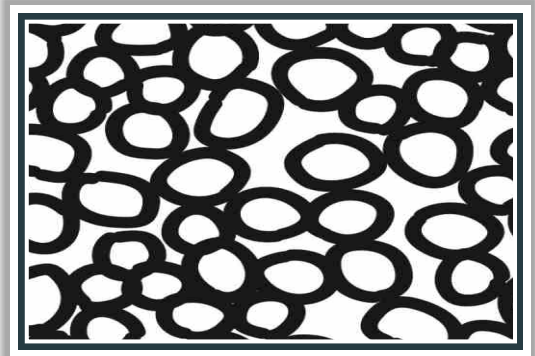
- Available in 1.5/3/6/15 denier in 6/12/18 mm cut length.
- Available in Semi dull, Black and Dope dyed shades.



Sustainable Eco-friendly Hollow Conjugated Fibres and Down-Like Micro Fibres

Product Range:

- Hollow and Hollow Conjugated Silicone, Slick and Non Silicone Finish in 4, 6 and 15 Deniers.
- Micro Fibres: 0.9, 1.0 and 1.5 deniers in silicone and non-silicone.
- Cut Length: 32, 38, 51, 64 and 76 MM



Advantages:

- Light Weight
- Superior Bulkiness and Great Recovery Power
- Easy to Maintain and Washable
- Odourless with Antiallergic Properties
- Down Feather-Like Comfort, Delicate and Slippy hand Feel
- Allows Air Ventilation and Facilitating the Evaporation of Humidity
- Slick fibre complying to BS5852

End Use:

- Filling to Pillows, Cushions, Bolsters, Quilts and Comforters.
- Filling to Mattresses and Furniture
- Filling to soft Toys

Sustainable Eco-Friendly

Hollow Conjugated Fibers and Down-Like Micro Fibers



Meeting the requirements of the Oekotex Standard 100. Made from 100% Post Consumer PET Bottles complying with Global Recycle Standard (GRS Norms)

Filament Yarn

With the widest range of filament yarns in the world, Northern Ecosphere (India) Pvt Ltd helps optimize your brand story, product performance, and production needs

Recycled

filament solutions available.



performance technologies can be added at yarn level.



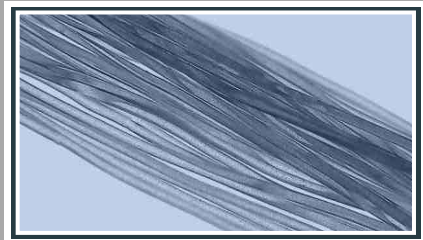
Partially Oriented Yarn (POY)

Polymer is extruded, spun, and partially drawn into multi-filament yarn.

Produced India

Comes in rPET / rPSF

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Uses, Furnishings, Industrial, Medical, Military, Transportation

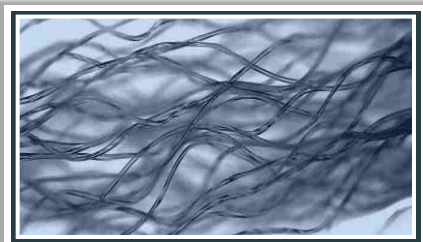
Draw Textured Yarn (DTY)

Multi-filament POY is drawn and twisted to create a bulky, strong yarn.

Produced India

Comes in r-PET / r-PSF

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Uses, Footwear, Furnishings, Industrial, Medical, Military, Transportation



for a Greener Future
NEPL
 PET → FIBRE → FABRIC → GARMENTS
 PET → POY → DTY → FABRIC



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