



## **N & F Co., Ltd.**

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NF

Nature & Fiber



## Regenerated Polyester Staple Fiber

N & F Co.,Ltd. Was established in 2006 as the one of the largest of manufactures of the Regenerated Polyester Staple Fiber. Having produced and exported to worldwide and had domestic sales.

Value for  
Innovation



Office



1st Factory



2nd Factory



3rd Factory





# Global Leader



## History

- 2006.12 N&F Co.,Ltd. Established
- 2006.12 Established branch office in Daegu
- 2006.12 Signed contract with Daejin Tex in Japan (Raw material)
- 2007.01 Signed extented contract with Daejin Tex in Japan (Raw material)
- 2008.04 Awarded the Certificate of promising small & medium enterprise by Kibo Technology Fund
- 2008.08 Attained Certificate of ISO 9001 and 14001 for all processing units
- 2008.10 Enlarged the plant and factory ( 1,400 MT per Month ) We have two subsidiary companies ; YANG IL Co., LTD. AND HAN KOOK FIBER Co., LTD. Our capacity is about 3,800MT per month.
- 2008.11 Awarded by the government for export accomplishment of 5 million dollars
- 2009.03 Signed contract with Saehan Industries Inc (Raw material)

## Certificate



## Technology-Guarantee Approved Company



## Award





# Regenerated Polyester Staple Fiber

When our company makes POLYESTER YARN, CHIP is generated as a by-product. After melting PET BOTTLE and the CHIP to reduce carbon dioxide(CO<sub>2</sub>), we extrude them. We are investing in Research and development actively so that we can produce eco-friendly regenerated polyester staple fiber.

Because of abrasion resistance, chemicals resistance and high elastic recovery, polyester staple fiber substitutes for cotton. When producing clothing fiber, polyester staple fiber is used variously for spinning, bedding cotton, a toy, non-woven, cotton gin of the fiber for automobile interiors or something like that, cushion or stuffing for a toy.

Virgin : IV - 7.2

Regenerated : IV - 6~6.5

## PSF (Regenerated)

- Solid
- Silicone & Non – silicone
- Denier : 3D~40D
- Cut length : 32mm, 51mm, 64mm, 76mm, 102mm
- Use : a toy, a bedding, a pillow, cushion, a mattress, quilt, industrial interiors, non-woven, padding
- Color : Black, White



Semi Virgin (3D~40D)



Semi Virgin with Silicone (3D~40D)



Super-A (3D~40D)



Super-A with Silicone (3D~40D)



Super-A Black (3D~40D)



Super-A Black with Silicone (3D~40D)

## Specifications and Price Details for the shipment in September, 2009.

- Cut Length : 32mm, 51mm, 64mm, 76mm, 102mm
- Container Stuffing : 40ftHQ X 1 FCL 22,500 KGS (250KGS X 90 Bales)  
20ftHQ X 1 FCL 11,250 KGS (250KGS X 45 Bales)



# Process

## Regenerated Polyester Staple Fiber



**1. Mixer**

- Materials input
- Various Recycled Polyester Chips



**6. Crimping Part**

- Crimping system with steam and punch function



**2. Dryer**

- Air dryer
- Removal of the moisture from the raw materials



**7. Tenter**

- Drying moisture of stretched fiber
- preventing loose crimp



**3. Extruder**

- Spinning extruder through dried raw materials
- To prevent deformation by 22°C cooling system



**8. Cutting Part**

- Cutting the crimped tow
- 32mm - 102mm



**4. Can-winder**

- Winding the fiber and putting them around the can.



**9. Packing Part**

- Packing by standard bale packing



**5. Stretching Part**

- Three-times progress of stretch fiber



**10. Container Stuffing area (Dock Type)**

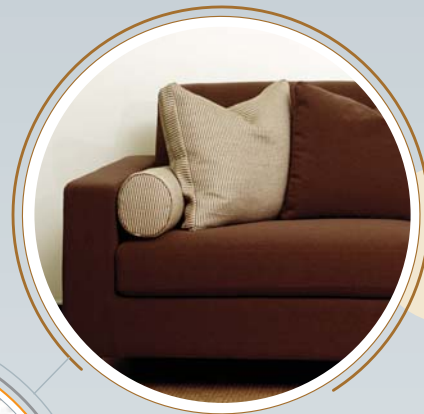
# Application of Products

Regenerated Polyester Staple Fiber

toy



sofa



felt



Application of  
Products

NF

Nature & Fiber

padding



bed



water purifier filter

