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## **Textile Technology Research Group** School of Design



## Overview of Nonwovens and Potential for Pakistan

Dr. Muhammad Tausif

Research Fellow in Technical Textiles m.tausif@leeds.ac.uk



### **Textiles in Leeds**

- Founded in 1874, originally as the Yorkshire College of Science.
- Leeds is one of only two Russell group Universities specialising in textile science and engineering (with Manchester).
- Research themes
  - Fibre science and technology
  - Fibre and fabric functionalisation
  - Nonwoven fabric technology
  - Performance fabrics
  - Sustainable materials and processes
- Highest ranked technical textile research centre in the UK







#### **Spin-outs from research**

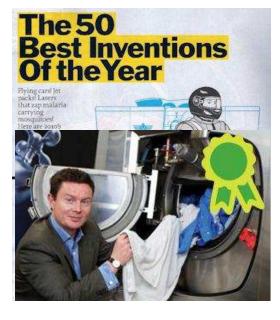
# UNIVERSITY OF LEEDS







Natural extracts for industrial use

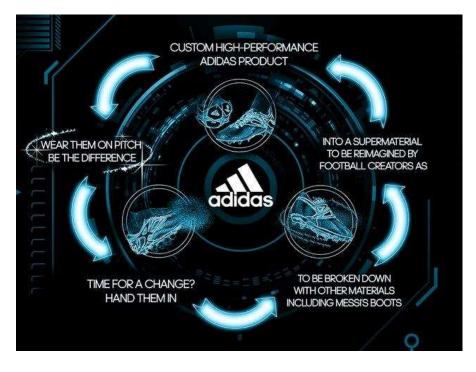






### **Sports Infinity – Horizon 2020**



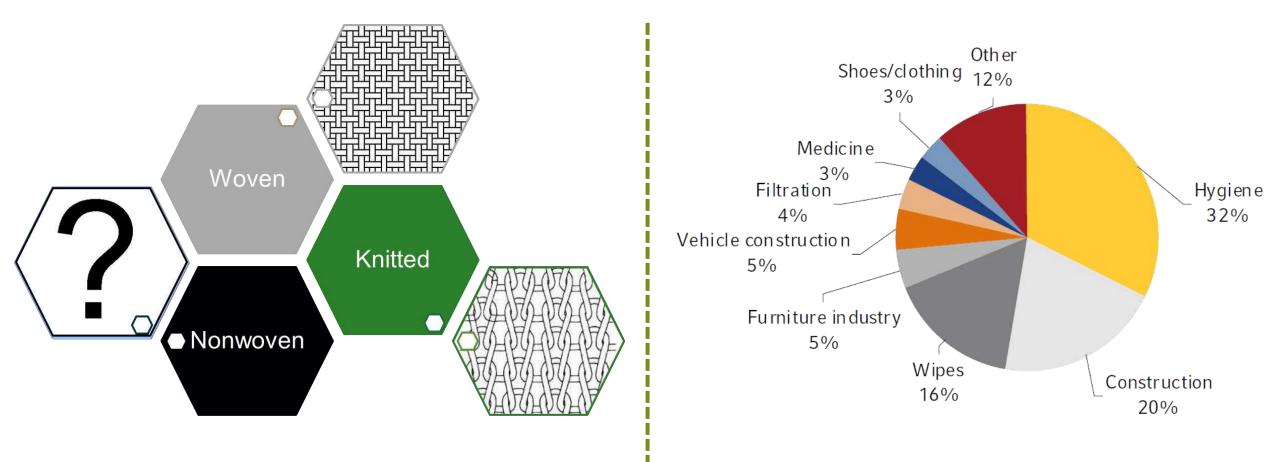


# FAREWELL RECYCLING, IT'S NOW TIME FOR INFINITY-CYCLING



#### **Nonwoven Structures and Applications**

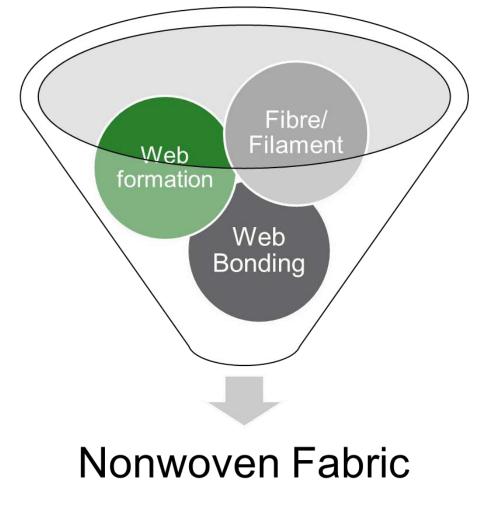




### **Nonwovens Technology**

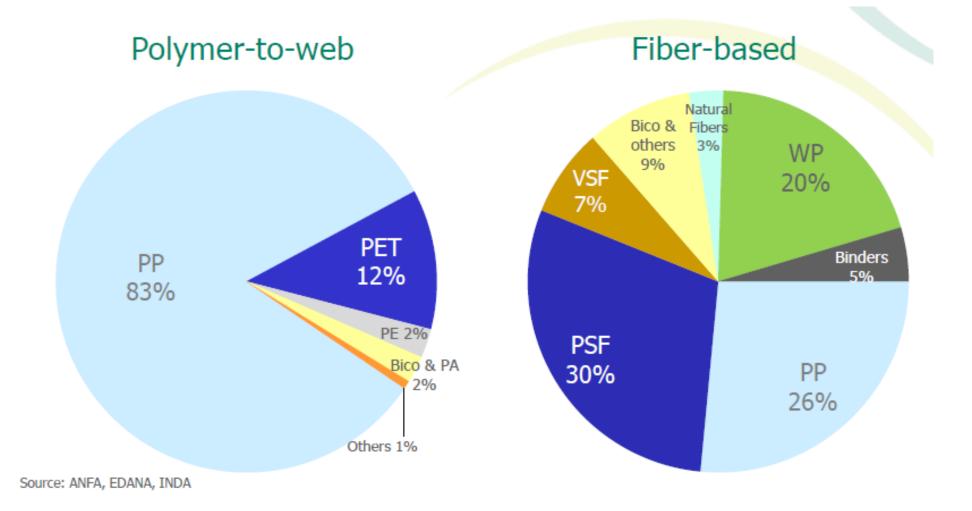






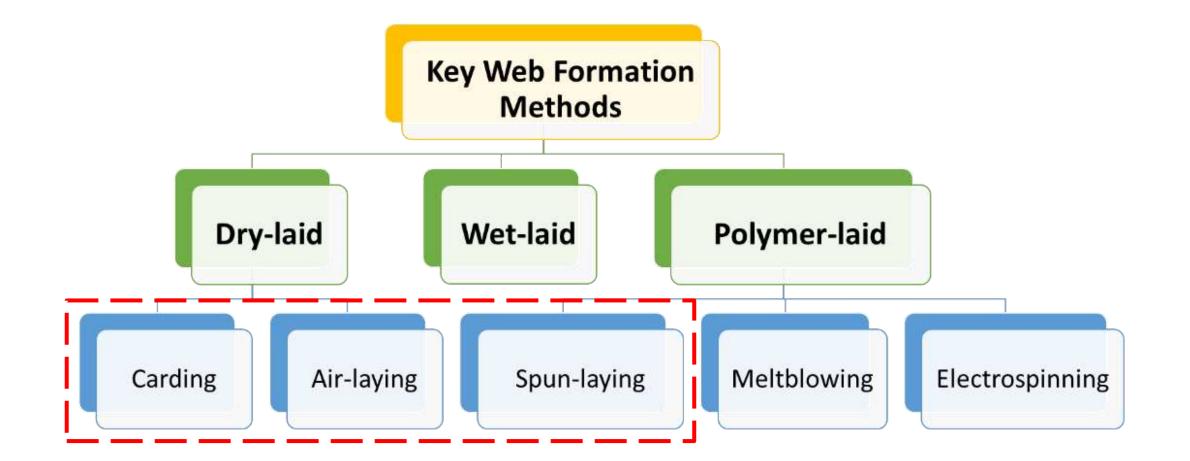
#### **Raw Materials**





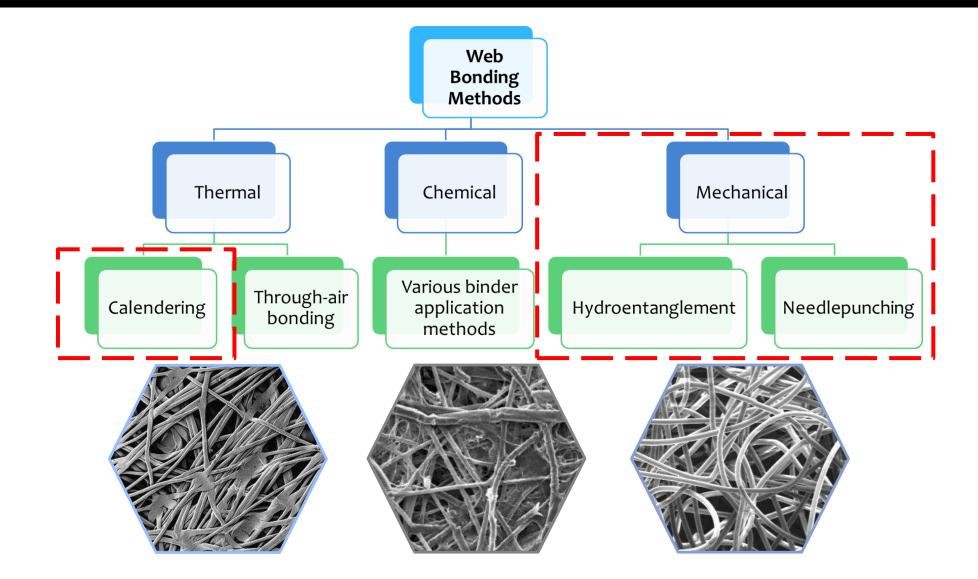
#### **Web Formation Methods**





#### Web Bonding Methods





### Pakistan - Exports



State Bank of Pakistan

#### EXPORT OF GOODS BY COMMODITY AND SERVICES BY TYPE

	MAY		JULY - MAY	
HS CODE - COMMODITY	2015	2014	2015-2016	2014-2015
	Thousand Rs.			
(A) Total Export Receipts (Scheduled Banks)	200,051,557	217,157,414	2,275,444,064	2,338,549,868
1–Textiles and Textile Articles	109,669,300	113,152,219	*** *** ***	*** *** ***
50-Silk	20,535	48,251	388,870	2,730,432
51–Wool, Fine or Coarse Animal Hair, Horsehair Yarn	100,343	148,064	1,228,222	2,051,47
52-Cotton	38,078,434	39,945,301	426,277,334	488,075,81
53–Other Vegetable Textile Fibres; Paper Yarn etc.	19,375	0	312,357	337,93
54–Man-Made Filaments	364,333	457,030	3,925,167	5,041,52
55-Man-Made Staple Fibers	2,862,584	3,055,064	32,735,522	39,171,60
56–Wadding, Felt and Nonwovens, Special Yarn, Twine	958,486	926,848	9,711,831	5,086,22
57–Carpets and other Textile Floor Coverings	955,998	1,249,494	11,711,052	12,074,82
58-Special Woven Fabrics, Tufted Textiles Fabrics, Lace	546,984	877,860	7,296,023	11,191,54
59–Impregnated, Coated, Covered or Lamented Tex. Fab.	326,562	416,840	4,484,837	5,040,66
60-Knitted or Crocheted Fabrics	427,185	516,092	4,072,607	4,237,00
61–Articles of Apparel & Clothing Accessories Knit/Cr	17,495,429	18,986,109	213,550,566	212,293,60
62-Articles of Apparel/Clothing Acces not Knited /Cro	17,447,259	15,325,591	188,626,831	171,867,53
63–Other Made-up Textile Articles; Sets, Worn Clothin	30,065,794	31,199,676	358,038,341	342,853,96

US\$ 90 Million

~ 1% of Textile Exports

### Pakistan - Imports

63-Other Made-up Textile Articles; Sets, Worn Clothin

3



State Bank of Pakistan

16,889,882

13,911,208

#### MAY JULY - MAY HS CODE - COMMODITY 2014-2015 2013-2014 2015 2014 Thousand Rs. (A) Total Imports Payments (Scheduled Banks) 344,577,039 356,398,830 3,823,537,230 3,958,349,545 11-Textiles and Textile Articles 22,363,120 18,133,183 227,043,661 222,553,960 50-Silk 572,063 243,322 5,177,497 2,401,751 51-Wool, Fine or Coarse Animal Hair, Horsehair Yarn 49.300 80.681 1,099,575 940,047 52-Cotton 5,836,189 3,431,741 57,492,381 70,799,997 53-Other Vegetable Textile Fibres; Paper Yarn etc. 250,724 348,317 4,725,165 6,697,263 54-Man-Made Filaments 5,420,390 5,111,358 54,745,444 54,353,798 55<sup>-</sup>Man-Made Staple Fibers 5,352,044 5,880,911 61,469,749 54,267,350 56-Wadding, Felt and Nonwovens, Special Yarn, Twine 560,530 448.041 5,493,463 3,986,667 57-Carpets and other Textile Floor Coverings 90,110 60,538 815,978 673,063 58-Special Woven Fabrics, Tufted Textiles Fabrics, Lace 1,075,486 3,993,505 208,065 2,395,477 59-Impregnated, Coated, Covered or Lamented Tex. Fab. 512,761 546,131 5,640,500 5,030,142 60-Knitted or Crocheted Fabrics 519,603 209,302 3,182,463 2,725,682 61-Articles of Apparel & Clothing Accessories Knit/Cr 588,656 182,131 3,799,453 2,015,563 62-Articles of Apparel/Clothing Acces not Knited /Cro 179,471 337,824 2,518,605 2,355,950

1,355,793

1,044,822

#### IMPORTS OF GOODS BY COMMODITY AND SERVICES BY TYPE

US\$ 50 Million

### Pakistan - Imports

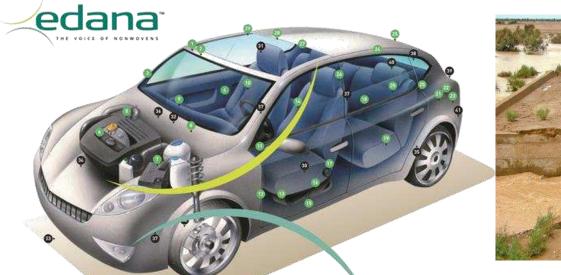


1	РСТ	ITEM DESCRAPTION
2	5601.2200	3 Nonwoven coat shoulder chest pad. Net wt approx 310kgs.
3	5601.2200	DESC WADDING MATERIAL TYPEA SIZE 89GSM X 150CM X 18M IO. NOT SHOWN BRAND MYTREX 2Receipt no059905REPORTThe sample is in the form of white thick soft sheet on
4	5601.2900	WOOL PADS CONSISTING OF A E FARCELA ADVANCED G. MOP 8 DOUBLE SIDE FLEXIBLE WHITE WOOL COMPOUNDING PAD PART NO AGMDSFWWEP24 QTY 25 PCS x 25 CTNS. ORIGIN USA B E FARCEL
5	5601.3000	DAFLOCK 3DX3MM. 15 KGSBAG.
6	5601.3000	FLOCK COLOUROFF WHITE GROSS WEIGHT 1140 KGS 2Receipt no 060605ReportThe sample on test is found to be nylon flock. It is in the form of creamy color fibrous powder.
7	5602.1000	NEEDLELOOM FELT130GSM0.6MMBLACK
8	5602.1000	NEEDLELOOM FELT180GSM0.8MMBLACK
9	5602.9000	AS PER ERNON WOVEN FELT IN ROLL, NET WEIGHT 10400 KGS APPROX, ORIGIN,
10	5602.9000	AS PER ER 4 FELT MATERIAL IN ROLL . COLOR GREY. APAPROX NET WT 2717 KGS.
11	5602.9000	DESCRIPTION NON WOVEN FELT IN ROLLS.NET WEIGHT 7842 KGS
12	5602.9000	AS PER ER FELT COLOUR BLACK RED NET WEIGHT 2145 KGS APPROX.
13	5602.9000	AS PER ER DESCRIPTION. NONWOVEN FILTER CLOTH PE 5UM IN ROLL.SPECPE 5 UM. WIDTH 180CM ROLL LENGTH 100 METERS.QTY62 ROLLS.WEIGHT5036 KGS APPROX.
14	5602.9000	DESCRIPTION FELT MATERIAL FOR GLOVES IN ROLLS NT WT 4833KG CHECKED WEIGHT FOUND 4970 KGS
15	5602.9000	AS PER ER 3 NON WOVEN FELT IN ROLLS, NE WT. 1860 KGS APPROX
16	5602.9000	Non Woven Felt, net weight 10060 kg approx. I.O, not shown
17	5602.9000	DDESC FELT FOR MAKING FILTER BAG WEIGHING 500gm2 550gm2. NOMEX 500C 550 C FINISH TREATMENT HEAT SET SINGED CALANDER GLAZED WIDTH 2.20 METER TOTAL 2 ROLL NET WIEGHT 117
18	5602.9000	NON WOVEN PP FELT IN ROLLS OF ASSORTED COLORS WIDTH 44 NET WEIGHT 10012 KGS APPROX.
19	5602.9000	8 DASH BOARD COVER NONSLIP MATERIAL IN ASSORTED SIZES.WEIGHT550KGS APPROX
20	5602.9000	1. NON WOVEN PP FELT COLOUR BLACK IO TYPE AND BRAND ROCKET NET WEIGHT 9945 KGS APPROX2 Receipt no 060346 Report The sample is in the form of black color sheet on tes
21	5602.9000	DESCRIPTION PP NON WOVEN FELT IN ROLLS OF WHITE AND BLACK COLORS, SPC. WIDTH 44, LENGTH 50 YARDS, ORIGIN NOT SHOWN, TARE WEIGHT IS 400 KGS APPROX CHECK WEIGHT 100 FOUND 11110 KGS
22	5602.9000	THE CONSIGNMENT. DESCRIPTION .NON WOVEN FELT IN ROLLS OF VARIOUS COLORS, ORIGIN NOT SHOWN, CHECK WEIGHT 100 FOUND 8640 KGS VIDE KICT SLIP NO 923616 DATED 19122016 IMAGES ATTAC
23	5602.9000	DESCRIPTION PP NON WOVEN FABRIC FELT IN ROLLS VARIOUS COLORS SIZES SPEC. 180 GSM WIDTH 44 PACKED IN POLY BAGS ORIGIN NOT SHOWN NET WEIGHT APPROXIMATE 11040 KGS
24	5602 9000	DOLYESTER NONWOVEN FELT IN REACK COLOR ROLLS, IMAGES ATTACHED, 100 WEIGHT VIDE KICTS NO. 92647126 12 2016 AND FOUND 10 610 KGS, ADDROX, NET WEIGHT 10 010, RED, SEALED, SIGNE

#### PU or PVC coated polyester (Artificial leather), Fusible interlinings, Flocked Nonwoven, Polyester felts (could be of multiple use), Filter fabric, Shoe applications, Coat shoulder pad

### Pakistan – Potential Areas







#### THE NONWOVENS CAR





 Mattic
 - NEEDLE PUNCHED GEOTEXTILE

 Made in Saudi Arabia
 Geotextile Reinforcement

 Image: Construction of Stabilization
 Image: Construction of Stabilization

#### Mattex Geotextile New Shipment Arrived

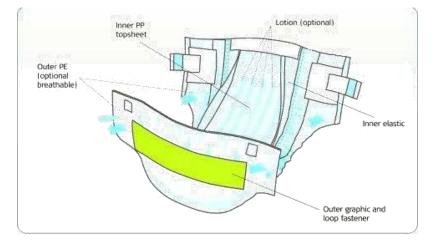
March 18, 2017 | Posted in: News



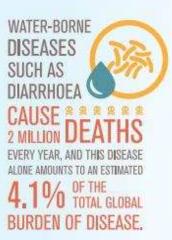
LAHORE: Nonwoven fabric application in canal lining could save at least 30 percent of water, which is lost through seepage, causing water logging in fertile soils around canal, a textile expert said on Monday.

## Pakistan – Potential Areas

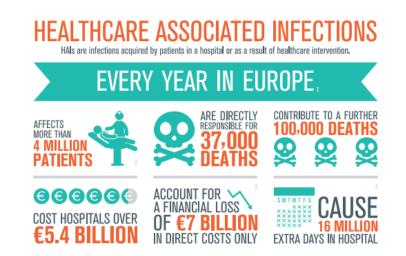


















## Pakistan – Nonwovens Industry







## Thank you