



WHERE CREATIVITY  
MEETS QUALITY!





## ABOUT US

**S**ujata Synthetics Limited commenced its business in 1990 at a gentle pace but the real speed towards the destination picked up in 1997. The Company kick-started with trading in yarn and gradually paved its way into manufacturing segment. After gaining years of experience and deep knowledge of the yarn industry while trading the commodity, we conceived the idea of entering into manufacturing of speciality yarn. With set goals and dedication Sujata Synthetics Limited grew from a small yarn trading firm into one of the leading producers of super speciality yarns in the market.

Currently, we take immense pride in stating that we are a 2-star export house and are listed among the top quality producers of high value carpet yarns. With the objective of growth and expansion in mind, Sujata Synthetics Limited grew its reach from Indian market to some of the renowned clients overseas. Initiating business relations with carpet weavers across only Turkey which is a renowned hub for carpet weaving industry, we widened our geographical reach exponentially and currently export to countries like **Algeria, Brazil, Egypt, Jordan, Lebanon, Portugal, Turkey, U.A.E. Venezuela and U.S.A.**

In the year 2013, we added a fabric weaving unit in our company and conceived manufacturing of greige fabrics in order to diversify our product portfolio and to tap local Indian market. We manufacture polyester greige fabrics used in further production of shirts, suits, curtains, saree and other womenswear items.

PNR Industries Limited was incorporated in the year 2013. The company's commercial production of high valued carpet yarn commenced from October 2014. PNR Industries Ltd. quickly grew its operations worldwide and now is an authorized Star Export House. The Company exports specialized custom-made carpet yarn in various countries viz. Turkey, Algeria, Egypt, Iran, Israel, Lebanon, Morocco and the U.S. Our products are used by our customers to weave premium luxury carpets.

The group is engaged in the Textile industry since more than 25 Years and the Directors have gained an enormous amount of experience in the field of textile manufacturing as well as trading activity. The turnover of our company has been witnessing a steep upward trend.

Our Group of Companies is driven by Spirit de Corps, where the management, employees and our vendors put their hard work and efforts in producing a better product. The continuous urge to bring improvement in quality, develop new customers and target virgin markets actually sums up as the pure strength of our company to be a success today.



## ECO FRIENDLY COMPANY

**W**ith a wholehearted faith in the basic idea of 'keeping it clean and green', our group has left no stones unturned in preserving the environment in its finest form. Our planning and efforts to arrange for raw material that leaves behind zero residual matter and our commitment to have a completely environment friendly manufacturing process has paid off considerably well for both; the ecosystem as well as the value chain. Of the multiple measures taken to serve the purpose the most important is using Dope-Dyeing technology to produce the yarn. This process saves unreal amounts of water and uses the bare minimum amount of energy and chemicals. It also brings down the CO2 emissions. And the list of benefits doesn't end here. The yarns so achieved are of superior quality, more durable and have better colors than the yarns achieved from other techniques. Just by using the Master Batch to achieve the colored yarns, we have succeeded in reducing the wastage and pollution from our end.

We are still open to every idea and process that helps and motivates us to do better for the environment. Our prime focus is growth and customer satisfaction but we also make it a point to be absolutely certain that our profit doesn't happen at the cost of any harm to the ecosystem.

For our firm, a carpet of lush green grass holds as much importance as a shaggy carpet of softness and luxury. Keeping chemical processes perfectly in tune with nature is what has helped us grow into a trustworthy name in the international fabrics markets.



# MALAI DORI



Flag Yarn



Butterfly Yarn

Nature of Yarn	Denier/Filament of Yarn
100% Polyester FDY	300 D 96 F

Final Dtex: 16000 to 16500

Packing :Wound On Plain End Spiral Tubes

Cone Weight :2 Kg's

Cone Dimensions :75 Ø X 280 Mm

Pallet Dimension :1070mm X 1070 Mm (22 Pallets 17500 Kg's / 40" HQ )

Note: Denier and / or Ply can be made as per requirement.



# MULTIPLY/3D YARN

## MULTIPLY YARN



## High Bulk 3d Yarn



## Shape 3d Yarn



Nature of Yarn	Denier/Filament of Yarn	Ply Available
100% Polyester FDY	300 D 96 F	300*2*8 / 300*2*5 / 300*2*4 With & without lurex
100% Polyester DTY	300 D 96 F	300*2*3 / 300*3*3 / 300*3 Direct

Packing :Wound On Plain End Spiral Tubes

Cone Weight :2.5 Kg's

Cone Dimensions :75 Ø X 280 Mm

Pallet Dimension :1118 Mm X 1118 Mm (20 Pallets 19500 Kg's / 40" HQ )

Note: Denier and / or Ply can be made as per requirement.

# MICRO SHAGGY YARN



**Matrix**



**Shadow**



**Surface**



**Premier**

Nature of Yarn	Denier / Filament of Yarn	Ply Available
100% Polyester DTY	180 D 288 F	180*2*11 / 180*2*9 / 180*2*8

Packing :Wound On Plain End Spiral Tubes

Cone Weight :2.6 Kg's

Cone Dimensions :75 Ø X 280 Mm

Pallet Dimension :1070 Mm X 1070 Mm (22 Pallets 16500 Kg's / 40" HQ )

Note: Denier and / or Ply can be made as per requirement.



# HIGH SHRINK YARN

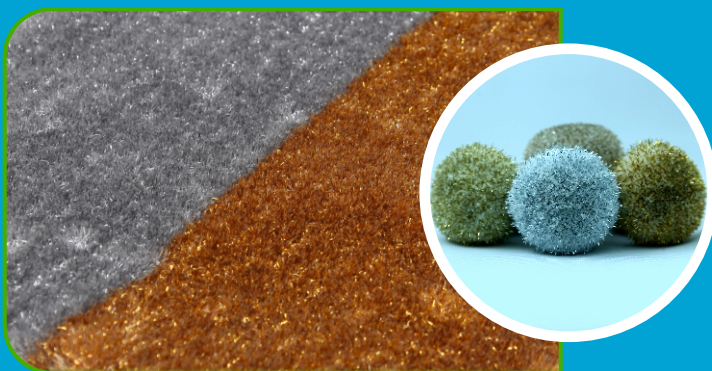
## Kesar



## Bilberry



## Lurex Yarn



Nature of Yarn	Denier/Filament of Yarn	Ply Available
100% Polyester DTY	300 D 96 F	300*4 / 300*5 With & Without lurex

Packing :Wound On Plain End Spiral Tubes

Cone Weight :2.0 Kg's

Cone Dimensions :75 Ø X 280 Mm

Pallet Dimension :1118 Mm X 1118 Mm (20 Pallets 15000 Kg's / 40" HQ)

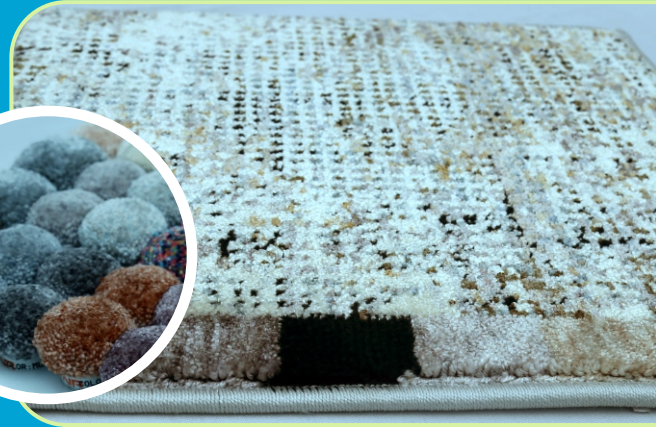
Note: Denier and / or Ply can be made as per requirement.



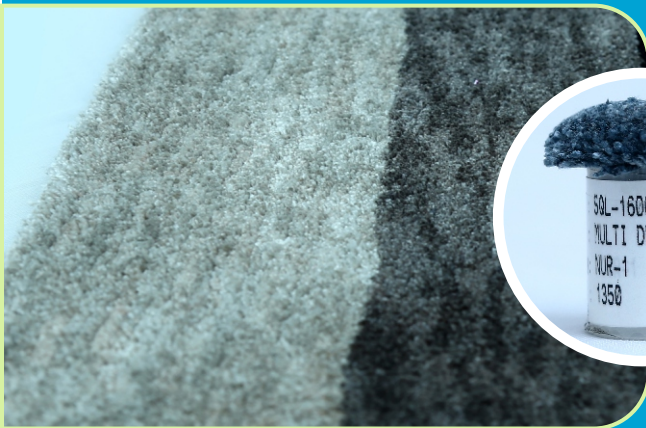
# SPACE DYED LOW PILE YARN



**Dolphin**



**Acura**



**Nur-1**



**Emel**

Packing :Wound On Plain End Spiral Tubes

Cone Weight :2.0 Kg's

Cone Dimensions :75 Ø X 280 Mm

Pallet Dimension :1118 Mm X 1118 Mm (20 Pallets 16000 Kg's / 40" HQ )

Note: Denier and / or Ply can be made as per requirement.

# SPACE DYED SHAGGY YARN



Soft touch



Mega Bulk



Ultra

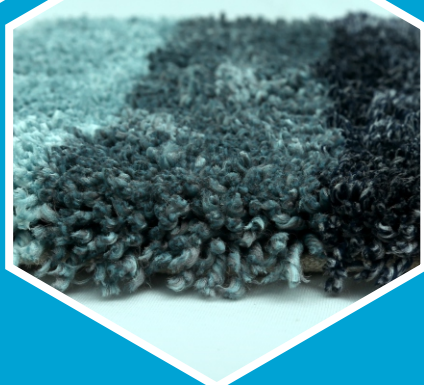
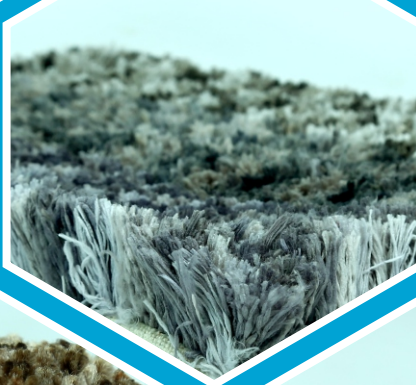
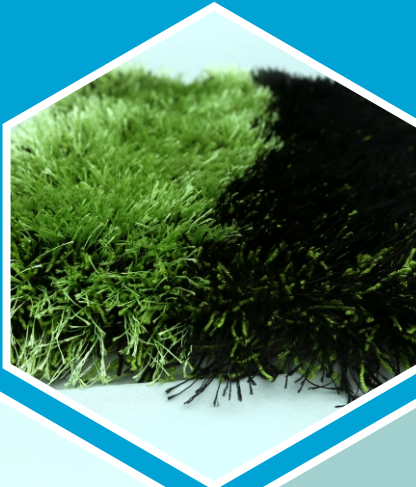


Falcon

Packing :Wound On Plain End Spiral Tubes  
Cone Weight :2.0 Kg's  
Cone Dimensions :75 Ø X 280 Mm  
Pallet Dimension :1118 Mm X 1118 Mm (20 Pallets 16000 Kg's / 40" HQ)  
Note: Denier and / or Ply can be made as per requirement.



# OUR LATEST FANCY PRODUCT





## YARN COUNT CONVERSION - READY REFERENCE

Ne	Denier	Dtex	Nm	Lea
8	664	739	14	22
10	531	591	17	28
12	443	493	20	34
14	380	422	24	39
16	332	369	27	45
18	295	328	30	50
20	266	296	34	56
22	242	269	37	62
24	221	246	41	67
26	204	227	44	73
28	190	211	47	78
30	177	197	51	84
32	166	185	54	90
34	156	174	57	95
36	148	164	61	101
38	140	156	64	106
40	133	148	68	112
42	127	141	71	118
44	121	134	74	123
46	116	128	78	129
48	111	123	81	134

Ne	Denier	Dtex	Nm	Lea
50	106	118	85	140
52	102	114	88	146
54	98	109	91	151
56	95	106	95	157
58	92	102	98	162
60	89	99	101	168
62	86	95	105	174
64	83	92	108	179
66	81	90	112	185
68	78	87	115	190
70	76	84	118	196
72	74	82	122	202
74	72	80	125	207
76	70	78	128	213
78	68	76	132	218
80	66	74	135	224
82	65	72	139	230
84	63	70	142	235
86	62	69	145	241
88	60	67	149	246
90	59	66	152	252

Ne	Denier	Nm	Lea
92	58	155	258
94	57	159	263
98	55	162	269
98	54	166	274
100	53	169	280
102	52	172	286
104	51	176	291
106	50	179	297
108	49	183	302
110	48	186	308
112	47	189	314
114	47	193	319
116	46	196	325
118	45	199	330
120	44	203	336

### Formula:

$$Nm = Ne * 1.69$$

$$Denier = 5314.9 / Ne$$

$$Dtex = 5910 / Ne$$

$$Lea = Ne * 2.8$$

## YARN COUNT CONVERSION - READY REFERENCE

Unit	Description
Tex Unit [tex]	Mass of yarn in grams per 1000 meters length
Decitex [dtex]	The weight in grams of 10,000 meters of yarn
Denier [den]	Mass of yarn in grams for length of 9000 meters
Metric yarns number [Nm]	Length in meters per 1 gram of mass
English cotton yarn number [Ne or ECC]	Number of 840 yards strands per 1 English pound of mass
Wool runs	Number of 1600 yards strands per 1 English pound of mass
Wool, worsted (NeK)	Number of 560 yards strands per 1 English pound of mass
Wool, woolen measure (NeS)	Number of 256 yards strands per 1 English pound of mass
Linen Count (NeL or Lea)	Number of 300 yards strands per 1 English pound of mass
Spun Silk	Number of 840 yards strands per 1 English pound of mass

RING SPINNING	
Normal Ring Spinning	Involves twisting staple fibers into a yarn and then winding on a bobbin for storage.
Compact Spinning	Revolutionary version of ring spinning process which achieves a remarkable improvement in yarn quality and yarn structure through better utilisation of fiber properties.
Siro Spinning	Process combines spinning and doubling in one operation for twisting single yarn from two rovings.
OPEN END SPINNING (Break Spinning)	
Rotor Spinning	The principal involves yarn formation directly from silver - the silver from the card goes into the rotor, is spun around into yarn and comes out, wrapped up on a package. There is no roving stage or re-packaging.
Air Jet Spinning	A spinning system in which yarn is made by wrapping fibers around a core stream of fibers using compressed air.
Vortex Spinning (MVS)	A technology to spin yarn with the vortex flow of compressed air. The tip of the fibers is focused to the center of the yarn by the vortex of compressed air so that the center of the yarn is always made straight without twisted. The other tip forms the outer layer that twines another fiber.
Friction Spinning (DREF Spinning)	DREF Spinning system makes it possible to spin yarns with a defined core/sheath structure. A centric core filament is completely covered by staple fibers.

## PHYSICAL PROPERTIES OF FIBERS

Fiber	Density	Tenacity	Elongation at Break	Moisture Regain at 65%RH	Melting Point	Suitable and widely used Dyes
	g/cm <sup>3</sup>	gf/tex	%	%	°C	
Acelate	1.32	13	24	6	230	Disperse, Basic, Azoic
Acrylic	1.16	20-30	20-28	1.5	Stick at 235	Basic, Disperse
Cotton	1.52	35	7	7-8	Decomposes	Direct, Azoic, Vat, Solubilised Vat, Sulphur, Reactive
Nylon 6	1.14	32-65	23-43	2.8-5.0	225	Acid, Basic, Direct, Reactive
Nylon 6,6	1.14	32-65	23-43	2.8-5.0	250	Disperse, Acid Mordant
Polyester	1.34-1.50	25-54	30-55	0.4	250	Disperse
Silk	1.32	40	23	10	Decomposes	Acid, Basic, Acid Mordant, Direct, Vat, Solubilised Vat
Tencel	1.50	37.7	13	11	NA	Sulphur
Viscose	1.46-1.54	20	20	13	Decomposes	Direct, Azoic, Vat, Reactive, Solubilised Vat, Sulphur
Wool	1.31	12	40	14	Decomposes	Acid, Reactive, Acid Mordant, Basic, Direct, Vat

### PHYSICAL PROPERTIES OF FIBERS

Micronaire value of cotton (Micrograms per inch)	= Average weight of 1 inch of fiber in Micrograms (1/1000,00gms)
Denier (for man-made fibers)	= Weight in gms per 9000 metres of fiber
Micron (micro-metre) (μm) (fiber diameter) (normally for Wool)	= 0.001mm
Micronaire Value	= 2.824 x Denier
Fiber diameter (μ)	= 11.3 x √(dtex / sp.gr) = 11.9 x √(den / sp.gr)
Tenacity values (kg/mm)	= 9 x (g/den) x Sp.gr = RKM value x Sp.gr. = (g/tex) x Sp.gr.

### TENACITY CONVERSIONS

	g/den	g/tex	g/dtex	cN/tex
g/den =	1	(g/tex) x 9	(g/dtex) x 10/9	(cN/tex) x 0.113
g/tex =	(g/den) x 9	1	(g/dtex) x 10	(cN/tex) x 1.02
g/dtex =	(g/den) x 0.9	(g/tex) x 10	1	(cN/tex) x 0.102
gN/tex =	(g/den) x 0.113	(g/tex) x 1.02	(g/dtex) / 0.102	1

## CONTAINER DIMENSIONS

Interior Dimensions of Dry Freight Containers for Standard and High Cube,  
(AKA; HC Container and HQ Container)

Container Dimensions	Length	Width	Height	Volume
20' Standard	590.6 cm	235.0 cm	239.3 cm	33.2 m <sup>3</sup>
	232.5"	92.5"	93.9"	1172 Ft <sup>3</sup>
40' standard	1203.2 cm	235.0 cm	239.3 cm	67.7 m <sup>3</sup>
	473.8"	92.5"	94.1"	2386 Ft <sup>3</sup>
40' High Cube	1203.2 cm	235.0 cm	269.7 cm	76.3 m <sup>3</sup>
	473.8"	92.5"	106.1"	2693 Ft <sup>3</sup>
45' High Cube	1355.6 cm	235.0 cm	269.7 cm	85.9 m <sup>3</sup>
	533.7"	92.5"	106.1"	3034 Ft <sup>3</sup>

### Some relevant websites\*

For any Container/BL Tracking
<a href="http://www.teack-teace.com">www.teack-teace.com</a>
<a href="http://www.seacargotracking.net">www.seacargotracking.net</a>
<a href="http://www.cargotracking.utopiex.org">www.cargotracking.utopiex.org</a>
<a href="http://www.searates.com">www.searates.com</a>

For Conversion rate of Various Currencies
<a href="http://www.xe.com/ict">www.xe.com/ict</a>
Online Textile Dictionary
<a href="http://www.textsite.info">www.textsite.info</a>

All Textile Events, Exhibitions, Conferences and Trade Fairs
<a href="http://textiles.thetexperts.com/Events.xls">http://textiles.thetexperts.com/Events.xls</a>

\* The websites mentioned above are solely for representative purpose and can be referred at the viewers own risk. Textports is not responsible for any gain or loss made on the basis of data from these sites.

NOTE





NOTE



**Because we care about the people  
and the environment they live in**





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