Tepar

"Live Innovation„

Would like to have a Turkish Cafe?

Who We Are

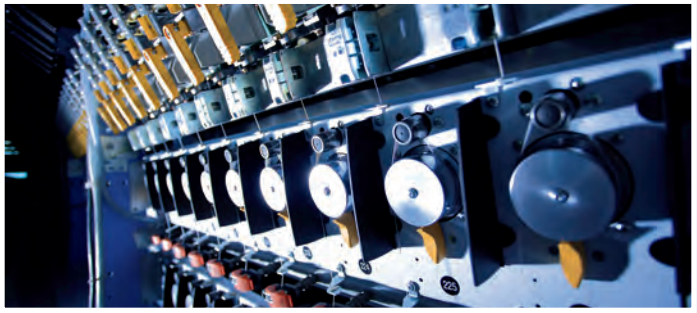
Tepar is one of leading producers and processors of multi filament Polyester, Polyamide and Polypropylene textured (AJT-DTY) yarns. We provide innovative, global textile solutions and unique branded yarns to our customers.

Our wide ranges of capabilities, state-of the art machinery provide us with the needed flexibility to competitively operate on a global platform.

Our business consists of the manufacturing of Draw texturing, Air-jet texturing, twisting, of polyester, polyamide and polypropylene filament yarns. Tepar yarns can be used in many products, including Upholstery, Home Textiles, and Automotive, Military and Technical Textiles applications and Contract Businesses.

Our goal is to provide customers and consumers with products that enhance the value of everyday products. Customers that choose to do business with Tepar have quick access to the newest products, including Tepar's portfolio of branded products. Some of these products include AUTOTEX®, DURAFIL® FLARET®, SLUBS® ECOFIL®, VELOX®, and DISCAT®. These branded products can be found in many products manufactured by the world's leading weavers and knitters.

The Company continues to drive growth organically through increased support of branded products and a continued focus on operational excellence.



Air Jet Texturing & False Twist Texturing

We draw heat and twist the continuous filament yarn to optimize various physical characteristics like bulk, strength, stretch and dyeability. Our advanced air-jet texturing capabilities and innovative texturing methods allow us to produce finished synthetics that look and feel like natural yarns, or provide products with unique and superior performance characteristics.

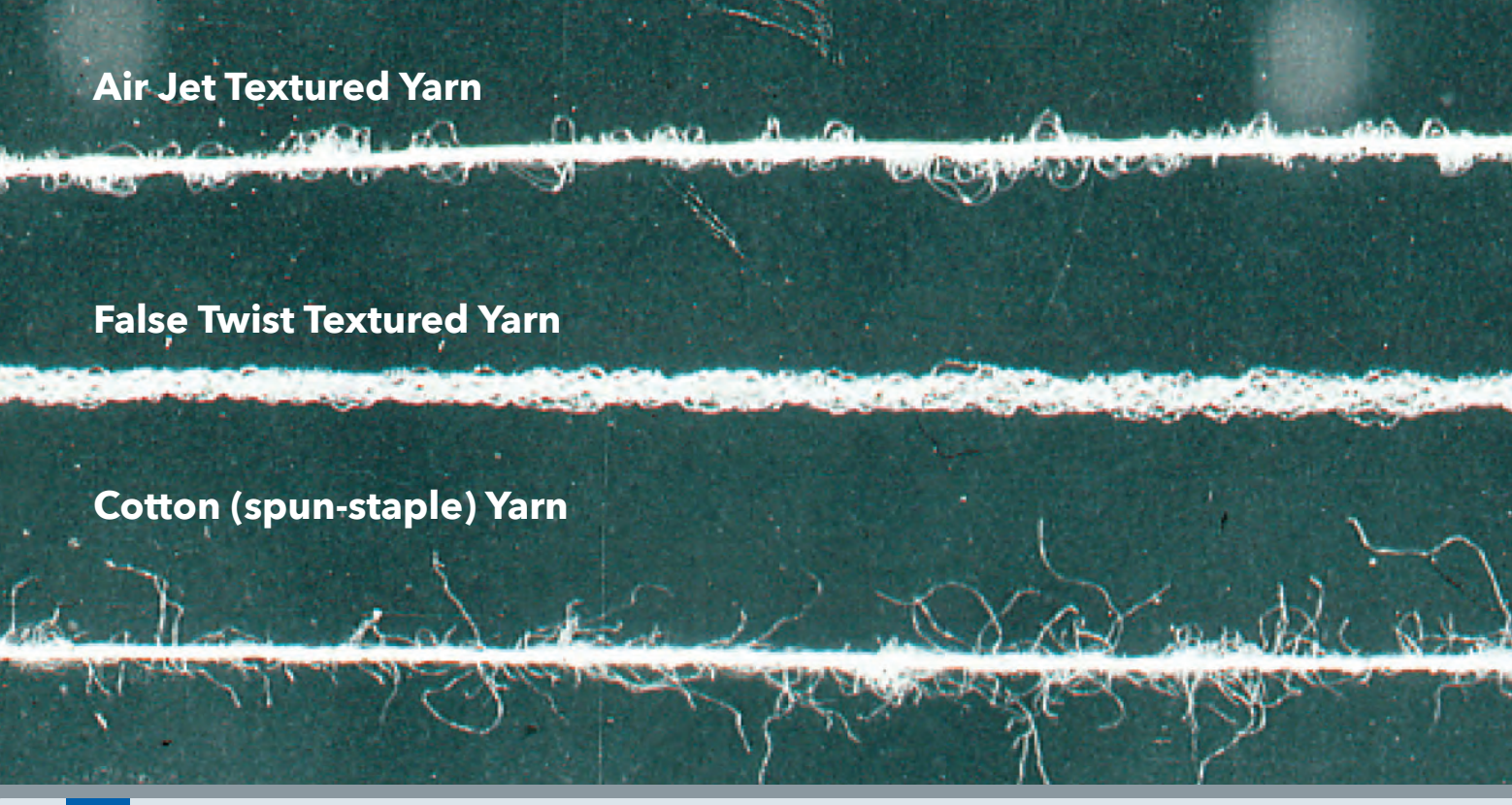
All types of continuous filament yarns (PES, PA, PP, Glass, ete.) as well as their forms (FDY, FOY, POY) can be processed to a large range of yarns for a wide variety of applications such as:

- Automotive
- Technical Textiles
- Home Textiles & Upholstery
- Apparel

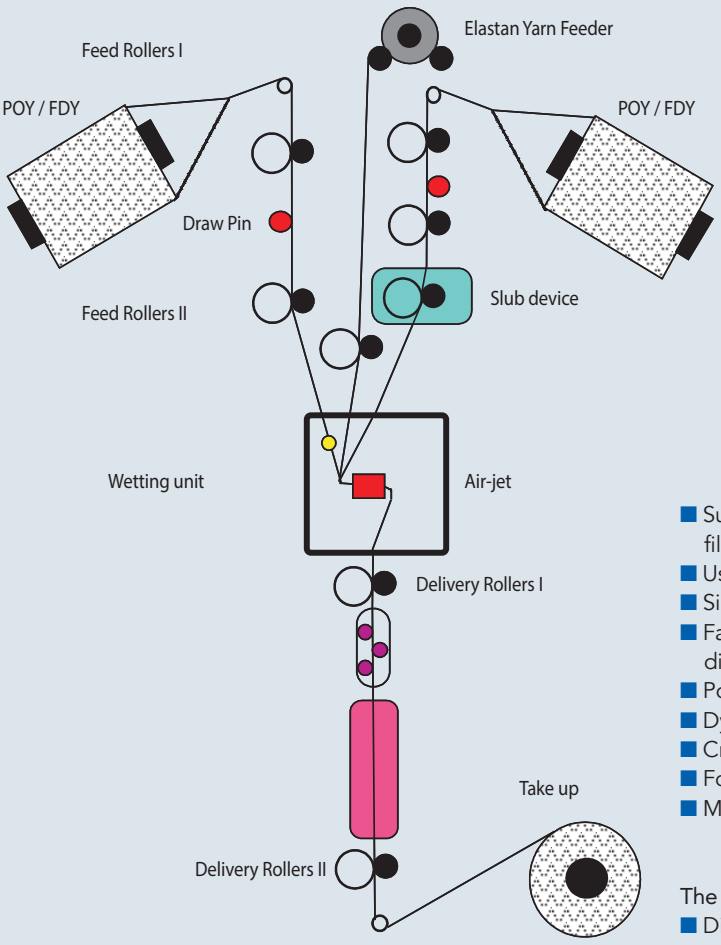
Twisting

We combine filaments into yarn by twisting them together for applications such as sewing thread, home Textile, Technical textiles and apparel.

The amount of twist is an important factor in finished consumers' goods. It determines the appearance as well as the durability and serviceability of a fabric. Fine yarns require more twist than coarse yarns. Warp yarns, which are used for the lengthwise threads in woven fabrics, are given more twist than are filling yarns, which are used for the crosswise threads. To retain the twist in the yarns and prevent any tendency to untwist or shrink, the yarns are given a twist-setting finish with heat or moisture, depending upon the kind of fiber used.



Unique Features of the Air Jet Textured Yarns (AJT)



- Supply possiblity of thermoplastic or non-thermoplastic filament yarns,
- Use of FDY and/or POY and/or elastan and/or spun staple yarns,
- Single-end, parallel and core-effect texturing possibilities,
- Fancy yarn production by means of feeding different colored, different linear density, different type yarns,
- Possibility of combining drawing and texturing processes,
- Dye variation by means of differential drawing of supply yarns,
- Creation of slub effects,
- Formation of fibre ends,
- Mechanical and heat setting possibilities,

The air-jet textured yarns have the following unique features;

- Different types of supply yarns maybe combined to create one single resultant yarn, whilst other textured yarns have one feed yarn only.
- Acceptable bulk levels maybe adjusted by the process parameters, whilst the other textured yarns have only one bulk level,
- The yarn keeps its integrity in all stretching conditions whilst the other textured yarns loose their bulk with applied tension,

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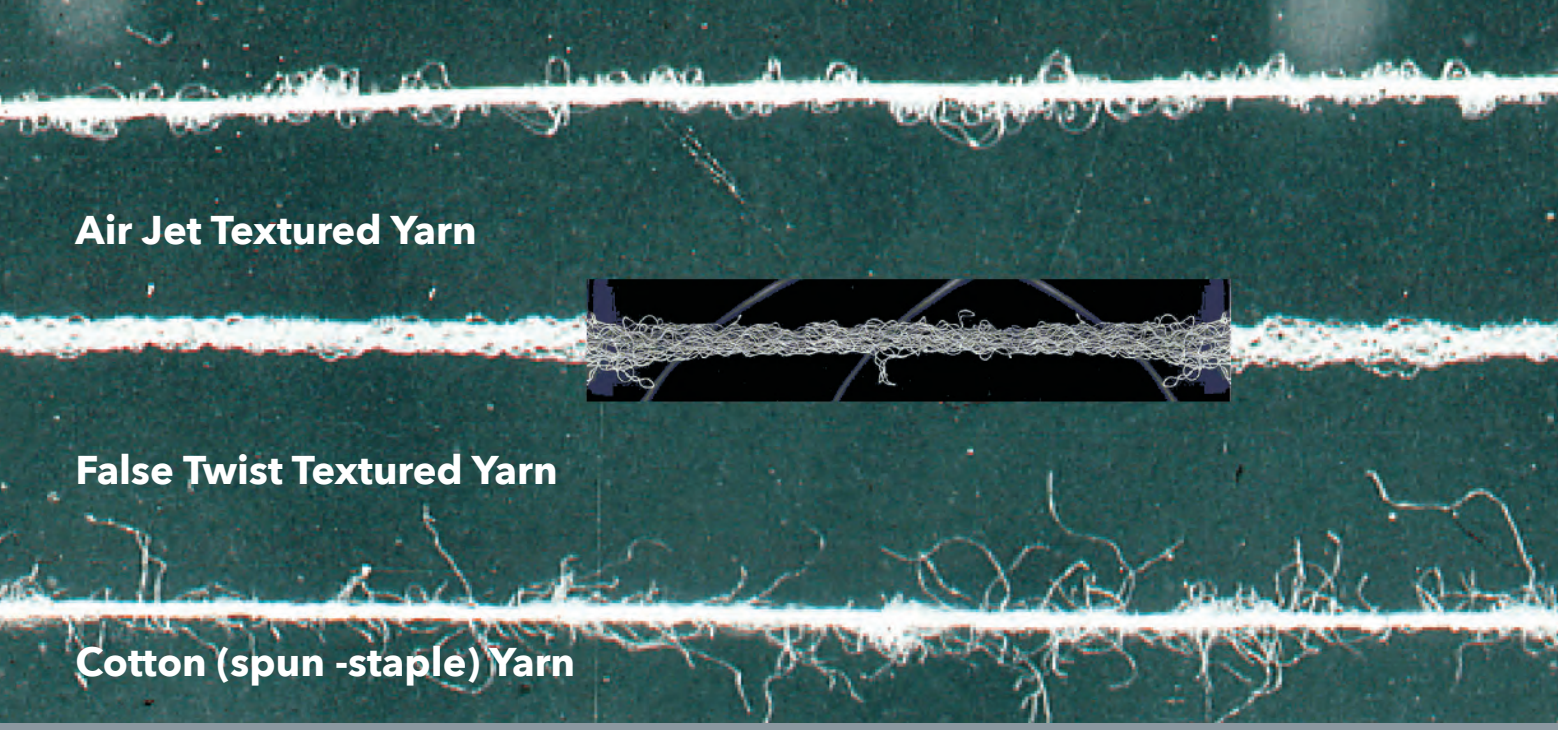
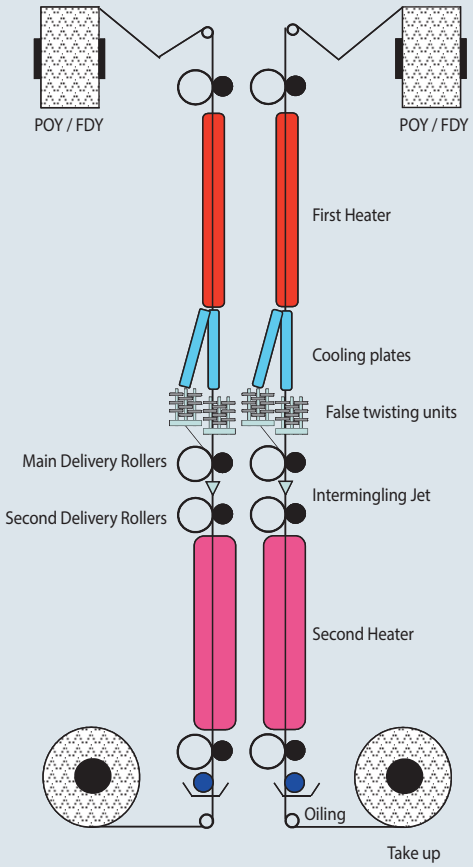


Comfort of the False Twist Textured Yarns (DTY)

Today, false twist texturing is the main texturing technology. It is based upon the principles of twisting, setting and untwisting a single end of filament yarn.

Filament yarn made from thermoplastic materials are heat set in a twisted condition, the defomation is made permanent. Simultaneously afterwards, the yarns are cooled and untwisted. The result is a yarn with greater bulk, higher stretch and better aesthetics.

In general, the range of yarn counts textured by false twisting is between 10 and 660 decitex. Higher counts are obtained by winding two or more ends onto one winding position. This count range encompasses a wide variety of end uses including stockings (utilizing the finest counts) apparel, home furnishing and technical applications (utilizing the coarsest counts).



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Our Products

Ares AUTOTEX

Texturing of continuous filament yarns by overfeeding into a high pressure jet of air creates looped and more natural appearance. The filaments become entangled and form a yarn with high bulk and soft surface. AUTOTEX ATY is made of polyester for high UV resistance as well as high tenacity for carpet warp as well as tarpaulins. False twist texturing of polyester POY (Partially Oriented Yarn) is achieved by drawing-heating-twisting-cooling-untwisting-intermingling and heat setting simultaneously. Such textured yarns have greater bulk and stretch that provides cover and comfort to textiles ranging from daily apparel to car seats and carpets. AUTOTEX DTY is made of polyester for high stretch and comfort to sun-shades, carpets, as well as tarpaulins.

Ares DISCAT

Dyeing properties of polyester fibers are modified by additives and operating conditions.Cationic dyeable polyester is such a modification to create different-dyeing effect on the yarn as well as woven or knitted fabrics. Ares DISCAT produced as both ATY and DTY is providing the intrinsic dance of colors and shades to home furniture and seat covers.

Ares SLUBS

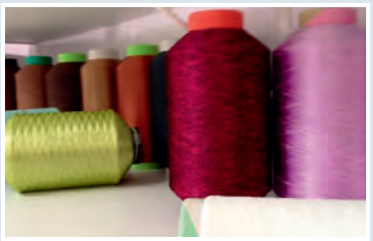
The air-jet texturing process has the unique possibility of varying the yarn irregularity in a controlled random and controlled regular manner. Two or three and even more colors may be blended together while one colour brought to the surface as a slub to form a desirable fancy yarn. Ares SLUBS produced both in ecru and dope dyed form to provide natural appareance to curtains and fancy effects to home furnishings.

Ares VELOX

PBT (PolyButyleneTerephtalate) is a modified polyester to provide stretch and elasticity properties to fibres and yarns. Stretch and recovery properties are also improved by special texturing processes. Ares TEXPAND produced by specially developed air jet texturing and false twist texturing processes offers great stretch and recovery characteristics to denim wear, car seat fabrics as well as many other special end uses.

Ares FLARET

Uniquely designed to regress from fire, melting into a material aiding in extinguishing the flames, Ares® FLARET provides extra protection to home furnishing and hospital decor.



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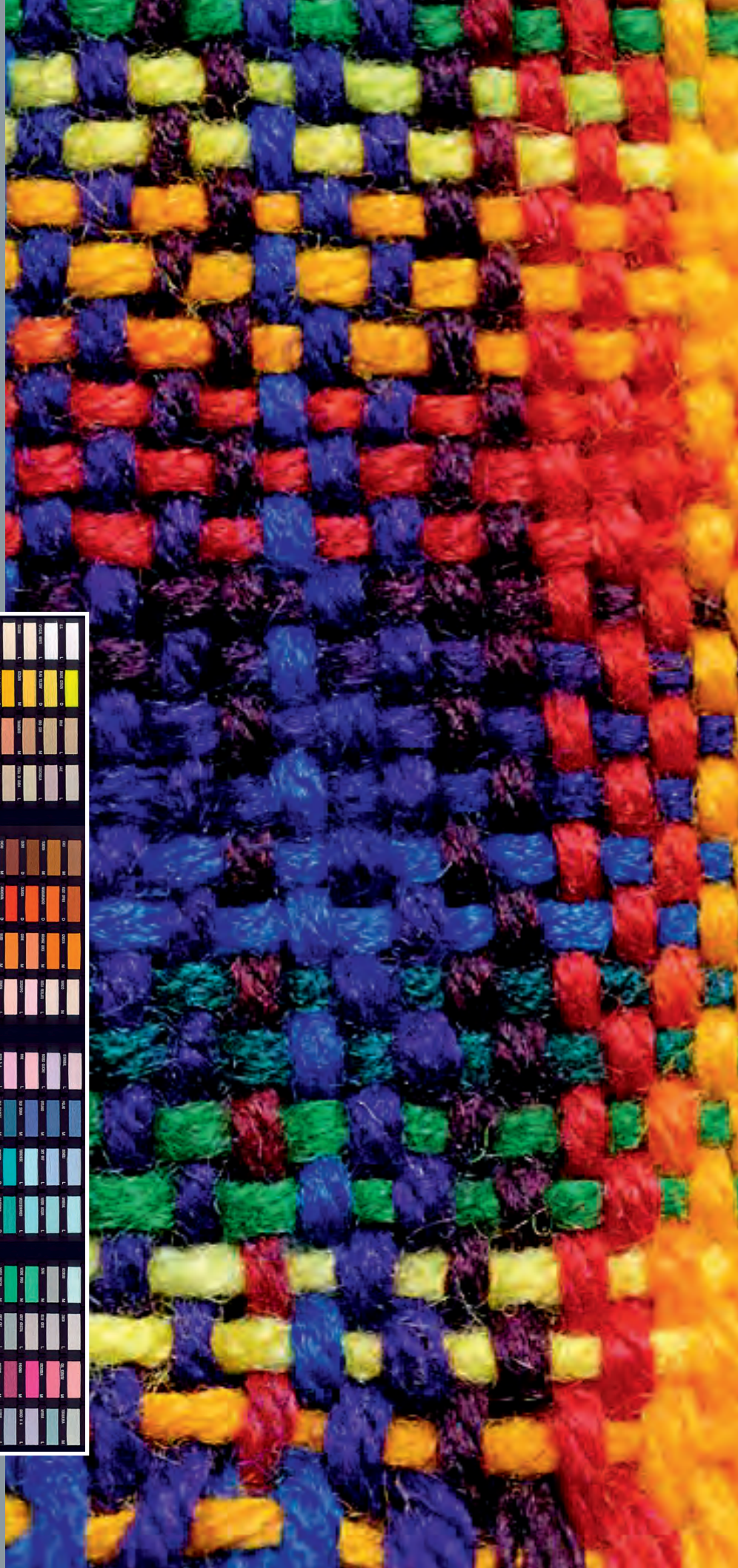
Ares is Tepar's family of solution dyed yarns, produced in a wide array of Yarn colors.

Perfect for a variety of end-uses, Ares has superior color consistency, light fastness characteristics and is bleach cleanable.

The dyeing process used to create Ares saves several liters of water per kilograms of yarn produced, making it environmentally friendly.

End uses:
- Automotive Upholstery
- Home Furnishings
- Hosiery
- Apparel
- Narrow Fabrics
- Outdoor Fabrics-Tents and Camping Gear
- Industrial and Medical Applications



Dance of Colors

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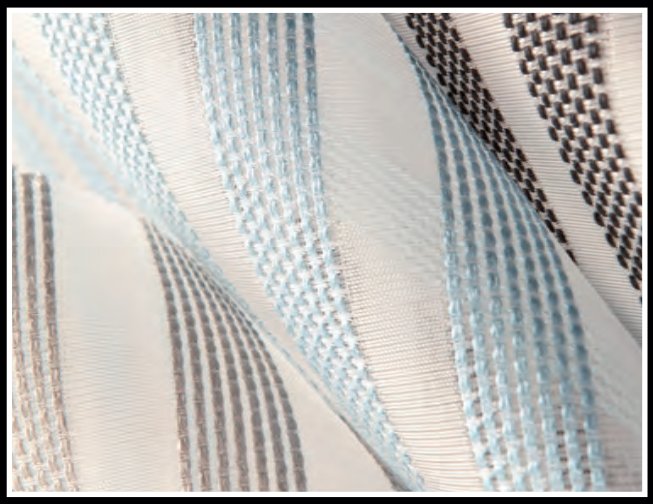

Natural look with long lasting wear and care properties of Ares DISCAT(differential dyeable air jet and false twist textured yarns of Tepar) opens up intriguing possibilities to seating and furnishing.

Seating & Furnishing

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Outdoor Applications

Sun shades, awnings, canvas, tents, marine fabrics, digital printing fabrics and tarpaulins require extreme UV resistance and color fastness, specially developed Ares polyester textured (air jet and false twist) yarns meet these challenges for the benefit of the weaver, finisher as well as the final users.

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Home Textiles

Polyester is the ideal fiber for home Textiles. Ares SLUB with controlled and random irregularities created by the air jet texturing process makes natural looking curtains for the peace of homes. Unique features of air jet texturing process allow the dance of colors and structures for desired curtains, table cloths as well as home furnishings.

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Technical Textiles

A technical textile is a textile product manufactured for non-aesthetic purposes, where function is the primary criterion

The versatility of Tepar is shown by the numerous ways it is possible to use our products in technical Textiles.

The range of technical appliactions for our products includes;

Dope Dyed Flame Retardant, Antimicrobial Yarns.
Dope Dyed UV resistant Yarns
Microfilament Yarns
Air Jet Textured Yarns
Matrix Yarns
Hollow and Channel yarns
High Tenacity Yarns

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Low or no window fogging as well as unique frictional and wear properties of air jet textured Ares AUTOTEX yarns make ideal choice for automotive seat fabrics.

Automotive Textiles

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Apparel

From daily wear blue jeans to skiwear, from intimate wear to sports wear, polyester textured yarns gives delightful possibilities. Thanks to controlled nature of air jet textured yarns with compact, soft, bulky and much more special characteristics. All apparel textiles enjoy pleasant and excellent qualities of Ares yarns.

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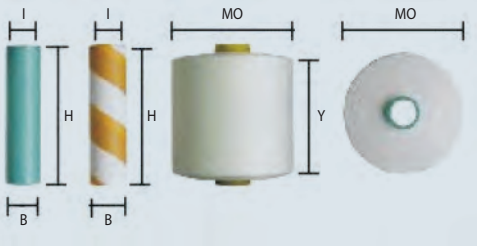
On the one hand, high tenacity low shrinkage requirements of carpet warp yarns and on the other hand soft and shiny optics of carpet pile yarns may be achieved by the versatile air jet textured yarns. REDTEP, GREENTEP, SUNTEP, SOMTEP, BEIGETEP create three dimensional carpet piles due to controlled shrinkage properties.

Packing for Textured Yarns

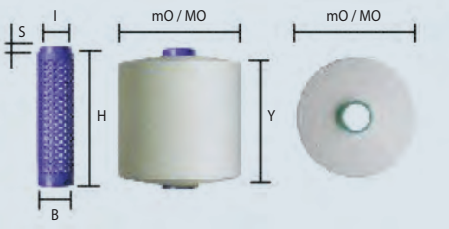
PLASTIC or CARTON BOBBINS

H	Height	290 mm
Y	Yarn height	245 mm
B	Bottom inside diameter	68 mm
T	Top inside diameter	57 mm
MO	Max outside diameter	250 mm
	Measured length weight	5 kg
	Tube weight	160 g
		180 g



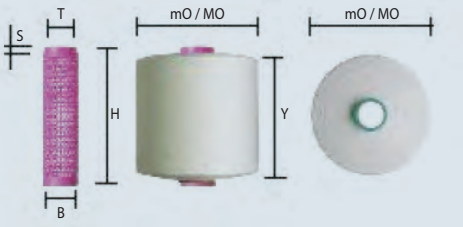
PLASTIC or PERFORATED BOBBINS

H	Height	290 mm
Y	Yarn height	245 mm
B	Bottom inside diameter	68 mm
T	Top inside diameter	58 mm
mO	Min outside diameter	190 mm
MO	Max outside diameter	220 mm
S	Step height 9 mm	
	Measured length weight	2 kg min
		3.4 kg max
	Tube weight	100-130g



PLASTIC or FLEXIBLE BOBBINS

H	Height	290 mm
Y	Yarn height	245 mm
B	Bottom inside diameter	68 mm
T	Top inside diameter	57 mm
mO	Min outside diameter	190 mm
MO	Max outside diameter	220 mm
S	Step height	9 mm
	Measured length weight	2 kg min
		3.4 kg max
	Tube weight	100-130 g



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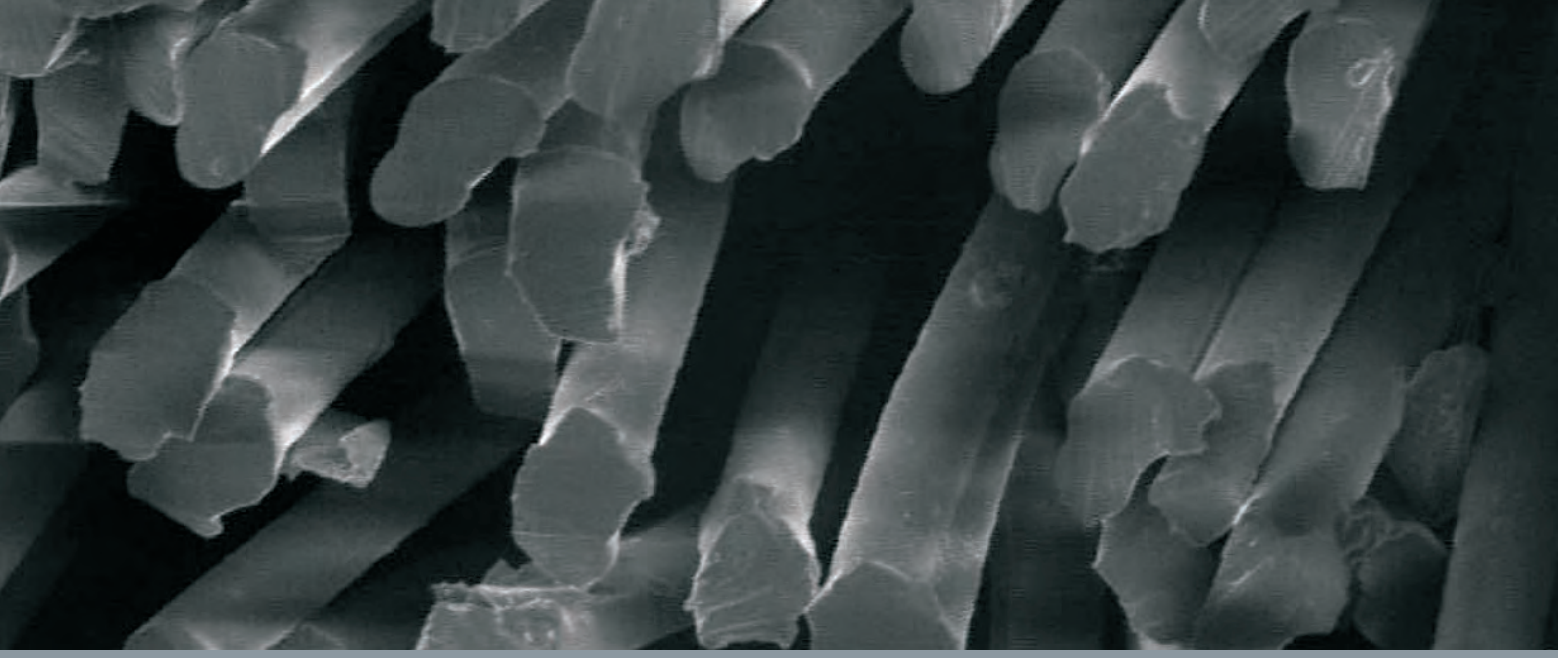


Characteristics of Man-Made Fibres Cross Sections

STRIPED

600 ISLANDS-IN-THE-SEA

16 SEGMENT PIE

HOLLOW SEGMENTED PIE

TRILOBAL

SHEATH / CORE

LOGO" FIBERSPIE

64 ISLANDS-INTHE-SEA

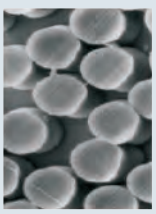
1% METAL CORE CONCENTRIC PRETTY PICTURE SHEATH / SHEATH / FIBER

CONCENTRIC RING FIBER

PRETTY PICTURE

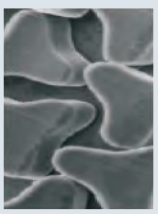
SHEATH / SHEATH / CORE

64 ISLANDS-IN-THE SEA



CIRCULAR

HOLLOW



TRILOBAL

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Quantities and Units Used in TEPAR

			Former Unit		
Quantity	SI Units	Symbol	Name	Symbol	Conversion Factor info SI Units
Lenght	metre kilometre centimetre milimetre micrometre	m km cm mm µm	yard mile inch inch one thousand of an inch	yd mile in in mil	0.914 1.609 2.54 25.4 25.4
Twist	Number of Turns per metre (*)	tpm	number of turns	tpi	39.4
Mass	kilogram gram	kg g	pound ounce	Lb oz	0.453 28.35
Linear density	tex decitex ktex	tex dtex ktex	denier denier denier	den den den	0.111 1.11 0.00011
Density	kilogram per cubic metre	kg/m3	-------	-------	-------
Force	newton centinewton	N cN	pound force kilogram force gram force	lbf kgf gf	4.45 9.81 0.981
Force per linear density	centinewton per tex milinewton per tex	cN/tex mN/tex	gram force per denier	g/den	8.83
Pressure	pascal	Pa	milimetres of mercury	mm Hg	133.3

Note : To convert from a former unit to an SI unit on the value expressed in the former unit by the value of this unit given in the column "conversion factor into SI units". Example : 25 inches = 25 x 25,4 mm = 635,0 mm

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Yarn Count Conversion Table

Denier	Decitex	Cotton Count	Number Metric	Meters per kg	Yards per lbs
1	1.11	5315.00	9000.00	9000000	4464414
50	56	106.30	180.00	180000	89288
53	59	100.00	169.33	169332	83997
66	74	80.00	135.47	135456	67197
75	83	70.87	120.00	120000	59526
89	98	60.00	101.60	101599	50398
100	111	53.15	90.00	90000	44644
106	118	50.00	84.67	84666	41998
133	148	40.00	67.73	67733	33599
150	167	35.43	60.00	60000	29763
177	197	30.00	50.80	50800	25199
188	208	28.35	48.00	48000	23810
190	211	28.00	47.41	47413	23519
204	227	26.00	44.03	44026	21839
225	250	23.62	40.00	40000	19842
253	281	21.00	35.56	35560	17639
266	295	20.00	33.87	33866	16799
281	312	18.90	32.00	32000	15873
300	333	17.72	30.00	30000	14881
332	369	16.00	27.09	27093	13439
475	528	11.19	18.95	18947	9399
500	556	10.63	18.00	18000	8929
532	591	10.00	16.93	16933	8400
563	625	9.45	16.00	16000	7937
585	650	9.09	15.38	15385	7631
600	667	8.86	15.00	15000	7441
759	844	7.00	11.85	11853	5880
900	1000	5.91	10.00	10000	4960

Denier	Decitex	Cotton Count	Number Metric	Meters per kg	Yards per lbs
1000	1111	5.32	9.00	9000	4664
1197	1330	4.44	7.52	7519	3730
1200	1333	4.43	7.50	7500	3720
1286	1429	4.13	7.00	7000	3472
1300	1444	4.09	6.92	6923	3434
1485	1650	3.58	6.06	6061	3006
1500	1667	3.54	6.00	6000	2976
1800	2000	2.95	5.00	5000	2480
1890	2100	2.81	4.76	4762	2362
2000	2222	2.66	4.50	4500	2232
2205	2450	2.41	4.08	4082	2025
2394	2660	2.22	3.76	3759	1865
2400	2667	2.21	3.75	3750	1860
2610	2900	2.04	3.45	3448	1711
2700	3000	1.97	3.33	3333	1653
2880	3200	1.85	3.13	3125	1550
2970	3300	1.79	3.03	3030	1500
3000	3333	1.77	3.00	3000	1488
3600	4000	1.48	2.50	2500	1240
4800	5333	1.11	1.88	1875	930
5000	5556	1.06	1.80	1800	893
5315	5906	1.00	1.69	1693	840
6000	6667	0.89	1.50	1500	744
7000	7778	0.76	1.29	1286	638
7500	8333	0.71	1.20	1200	595
8000	8889	0.66	1.13	1125	558
9000	10000	0.59	1.00	1000	496
10000	11111	0.53	0.90	900	446

Denier (den) Unit used measuring the fineness ofyarns, equal to the total weight in grams of 9,000 metres of libre, filament or yarn. Denier is a direct numbering system in which the lower number represent tiner yarns and the higher numbers the Coarser yarns.

Denier per filament The weight in grams of 9,000 meters of an individual filament, calculated by taking the yarn denier and dividing it by the number of filaments in the yarn.

Decitex (dtex) The linear density (mass per unit length) of fibres, filaments, and yarns, or other textile materials equal the total weight in grams of 10,000 meters.

Cotton Count (Ne) An indirect yarn numbering system based on length and weight originally used for cotton yarns and now employed for most staple yarns. The count of the yarn is equal for the number of 840-yard skeins (or hanks) required to weigh one pound. Under this system, the higher the number, the finer the yarn.

Number-metric (Nm) The number-metric count of yarn is equal to the number of kilometer; required to weigh one kilogram. Similar to Cotton Count, the higher the number the finer the yarn.

Tepar

Dedicated to Quality

Tepar
is dedicated to achieve and maintain a high standard of quality in all aspects of its operation. Quality is the main business principle for **Tepar**.

Our quality system conforms to the requirements of ISO9001:2008 and is regularly monitored by internal and independent auditors to ensure that these standards are maintained.

We stand behind our yarns and are committed to the total satisfaction of our customers, suppliers, employees, and shareholders.


FIRST QUALITY CERTIFICATION

FQC
FIRST QUALITY CERTIFICATION

CERTIFICATE

This certificate is granted to the organization,

TEPAR TEKSTİL SANAYİ VE TİCARET ANONİM ŞİRKETİ

Hadımköy Mahallesi Celal Bayar Caddesi No:1
Arnavutköy / İstanbul / Türkiye

THE DESIGN, DEVELOPMENT AND PRODUCTION OF SYNTHETIC (POLYESTER, POLYAMIDE AND POLYPROPYLENE) AND ARTIFICAL (RAYON, ACETATE), CONTINUES FILAMENTS YARNS, POY, FLAT AND TEXTURED

EA 4

according to the scope,

ISO 9001:2008

to certify that Quality Management System in accordance with standard's clauses is established and being implemented.

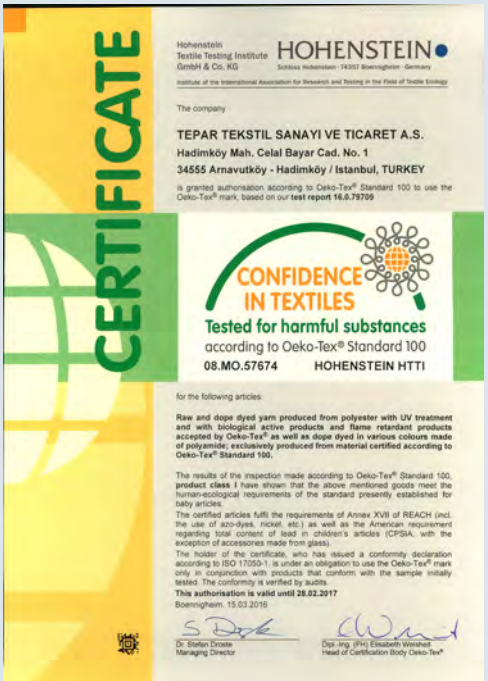
First Date of Issue	: 18.03.2014
Date of Issue	: 17.03.2016
Certificate Period	: 3 Years
Reissue Due Date	: 17.03.2017
Certificate No	: 01.14.4456.9227.D

First Quality Certification
System Certificate Approved
Maltepe-İstanbul/Türkiye

IAF

DAkkS
Deutsche Akkreditierungsstelle
D-ZM-19276-01-00

This certificate is valid for the revision of the standard to the last date of 15.09.2015.


CERTIFICATE

Hohenstein Textile Testing Institute GmbH & Co. KG
HOHENSTEIN
Schloss Hohenstein · 74357 Boennigheim · Germany

Institute of the International Association for Research and Testing in the Field of Textile Ecology

The company

TEPAR TEKSTIL SANAYI VE TICARET A.S.
Hadimköy Mah. Celal Bayar Cad. No. 1
34555 Arnavutköy - Hadimköy / Istanbul, TURKEY

is granted authorisation according to Oeko-Tex® Standard 100 to use the Oeko-Tex® mark, based on our test report 16.0.79709

CONFIDENCE IN TEXTILES
Tested for harmful substances
according to Oeko-Tex® Standard 100
08.MO.57674 HOHENSTEIN HTTI

for the following articles:

Raw and dope dyed yarn produced from polyester with UV treatment and with biological active products and flame retardant products accepted by Oeko-Tex® as well as dope dyed in various colours made of polyamide; exclusively produced from material certified according to Oeko-Tex® Standard 100.

The results of the inspection made according to Oeko-Tex® Standard 100, product class I have shown that the above mentioned goods meet the human-ecological requirements of the standard presently established for baby articles.
The certified articles fulfil the requirements of Annex XVII of REACH (incl. the use of azo-dyes, nickel, etc.) as well as the American requirement regarding total content of lead in children's articles (CPSIA, with the exception of accessories made from glass).
The holder of the certificate, who has issued a conformity declaration according to ISO 17050-1, is under an obligation to use the Oeko-Tex® mark only in conjunction with products that conform with the sample initially tested. The conformity is verified by audits.
This authorisation is valid until 28.02.2017
Boennigheim, 15.03.2016

Dr. Stefan Droste
Managing Director

Dipl.-Ing. (FH) Elisabeth Winzhet
Head of Certification Body Oeko-Tex®

Tepar

Safety, Health and Environment

TEPAR is committed to a clean, safe and healthy environment for its people, partners and surrounding communities

We are committed to:

- Continuous improvement through the regular review of policies, practices and performance and the application of appropriate management systems
- Incorporating safety, health and environmental considerations into business decisions
- Complying with legislation and other requirements applicable to our operations
- Sharing information and building awareness amongst employees, service providers, customers, suppliers and surrounding communities

Tepar

Polyamide 66 AJT Yarns

When Durability Count, Rely on DURAFIL® Brand Fabric

DURAFIL® fabric provides rugged durable performance for a variety of end uses, including packs, luggage, footwear and performance apparel.

Xtreme DURABILITY

Products made with DURAFIL® fabrics feature enhanced tear and abrasion resistance, and long-lasting durability.

- Exception strenght to weight ratio
- High Tear & abrasion resitance
- DURAFIL® fabric look
- Reliable performance
- Air jet textured for high abrasion resistance

Yarn		Luster	Cross-Section	Polymer	Type
Dtex / Fil	Denier/Fil				
370/140	330/140	Bright	round	Polyamide 66	AJT
560/140	500/140	Bright	round	Polyamide 66	AJT
630/140	570/140	Bright	round	Polyamide 66	AJT
770/140	695/140	Bright	round	Polyamide 66	AJT
810/140	725/140	Bright	round	Polyamide 66	AJT
1080/140	950/140	Bright	round	Polyamide 66	AJT
1110/140	1000/140	Bright	round	Polyamide 66	AJT
1110/280	1000/280	Bright	round	Polyamide 66	AJT

FABRIC CONSTRUCTIONS

- Broad woven: plain, dobby, Basket or ripstop weaves
- Knit: circular, flat or warp knits
- Narrow wovens: Military or commercial narrow specifications

Tepar

Valens

UHMW-PE Fiber

The UHMWPE Fibre has excellent characteristics such as high strength, high modulus, low density, abrasion and impact resistance, high durability, high hydrophobic, biocompatibility and anti-UV, etc.

The product also shows good characteristics in resistance to (sea) water, moisture, mildew, fatigue durability and long flexing life, etc. It is not advisable to use UHMWPE fibers at temperatures exceeding 80 to 100 °C (176 to 212 °F) for long periods of time

UHMW-PE Fiber Features;

- o UHMWPE is a type of polyolefin
- o 15 times stronger than steel
- o Soft and highly pliable
- o Resistant to fatigue and abrasion
- o High Performance & Durable
- o Chemical resistance
- o Low Elongation and UV resistance

Available in;

Flat Yarn: from 50Den until 3000Den.

UHMWPE fibers are used in armor, in particular, personal armor and as vehicle armor, cut-resistant gloves, bow strings, climbing equipment, towage, fishing nets, spear lines high-performance sails, suspension lines on sport parachutes and paragliders, rigging in yachting, and kites lines.

Tepar

PBT Yarns

VELOX ™ Fibre designed by the future

VELOX™ PBT yarn is based on the elastic properties of polybutyleneterephthalate (PBT) . This feature makes it the ideal choice for extremely comfortable garments.

VELOX ™ Stretch is a yarn in all respect;

- Thermoplasticity (Dimensional stability for both plan and elastic fabrics)
- Elastic Recovery (Good Stretch, prompt recovery, Low resşdual deformation)
- Ductility (Easy use and processing)
- Low Absorbency (Quick drying-Reduce weight of wet fabric)
- Bulkiness (Comfort and stretch)
- Resistance to Sunlight (1% loss of elasticity after 70 hours of expose to sunlight)
- Color Fastness (Expose to light : average value 5-6%)
- Resistance to Chlorinated Water (1% loss of Elasticity after 12 days in Chlorinated water fabric)
- Easy Dye (It can be dyed between 90-100 oC @ atmospheric pressure)

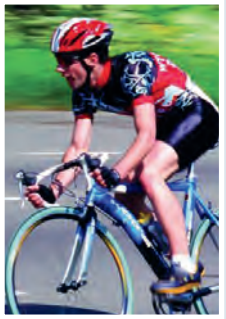
VELOX ™ CAN BE USED IN ALL TEXTILE SECTORS
Weaving / Circular Knitting / Warp Knitting
Seamless / Hosiery

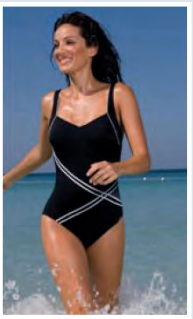
Comparison of PET, PA 6, PA 6.6 and PBT bulked yarn properties (e.g. DTEX 78)

YARN	POLYESTER	POLYAMIDE 6	POLYAMIDE 6.6	PBT
Crimp Rigidity	42	56	56	58
Crimp Module	28	33	33	44
Crimp Stability	83	98	98	96
Tenacity	≥30	≥33	≥33	≥27
Elongation%	≥25	≥30	≥30	≥25

Available in DTY;

- o Dtex 22/9
- o Dtex 42/18
- o Dtex 56/24
- o Dtex 78/24
- o Dtex 167/48
- o Dtex 330/96
- o Dtex 500/144
- o Dtex 660/192





Tepar

Melange

Melange™ Textured Yarns are Disperse / Cationic Blend Textured (AJT & DTY) yars. This feature makes it the ideal choice for Naturel looks Fabrics. Tone-on-tone melange effects infuse a cotton look and feel

Compared widyes, Cationic Dyes have;

- **High Dyeing Power** = Lower dyeing cost
- **Shades obtained rapidly** = Shorter dyeing times
- **Comple Setting** = No subsequent reductive cleaning
- **PES and Cat mixtures** = (Creation of dual-ton effects)
- **Higher Dyeing Temperature** (Shorter dyeing temperature)

Melange™ applications;

Fashion Wear
Active Sports
Knitted Products
Socks and Hosiery

	Dtex	Dtex	Dtex
PET/CD	55 X 2	78 X 2	167 X 2
PBT/CD	55 X 2	78 X 2	167 X 2
PA/CD	55 X 2	78 X 2	167 X 2

Two distinct yarns that together create in the dyeingprocess a perfect contrasting heather effect

Tepar

Performance Yarns By Tepar

3 Functions in 1 yarn MULTI-FUNCTIONAL AND ECOLOGICAL.

The Tepar all in one combination is a unique blend of fibers with a hollow core along with fibers with a channeled surface and antimicrobial effects providing benefits beyond what can be expected by just one type of Fibre in a single yarn. A Single performance yarn that combines everything you need. In any combination you need. The Unique mix of Multi-channel, Hollow, Stretch and Antimicrobial control.

- o All in one performance Yarn
- o All means you can have all the properties you want
- o In means the properties are inherent in the yarn, so they will endure
- o One means one customized solution designed fit your needs.

o DTY 167/82 SD-RD
x 1 /2 /3/4 PLY
o AJT 180/82, 360/146

Quick absorbing
Within a short time sweat and moisture are absorbed and dried, regulating the amount of moisture on the skin and providing relief for the skin.

Moisture management
It prevents wet fiber from raising or lowering the body temperature after intense exercise, and it continually regulates and maintains a comfortable feel.

Easy to care
It dries quickly after washing, making clothes easy to manage. This is maintained semi permanently, even after repeated washings
Available in;

Tepar

TENDER

PET Multi / Micro Filament Yarns

TENDER™ is a micro denier yarn giving fabrics an ultra-soft hand and appearance. Comfortable and ease of care make TENDER™ an alternative to the beauty and performance of traditional microfibers.

- Yarns with multi filaments aimed at achieving the best compromise among a soft handle, a bulk feel and good fabric strength.
- Used in TENDER™ Fabric for apparel, home furnishing and automotive upholstery. TENDER™offers both the feel and natural look.
- TENDER™ yarns made from micro denier fiber contain many more filaments than regular yarns. Fabrics produced with TENDER™ yarns have water tightness, windproof properties and improved breathability.
- TENDER™ Yarns have a quick stress relief, resist wrinkling and retain shape.

Available in Den;

DTY	SD	35/75, 25/96, 50/72, 75/96, 75/144, 100/144, 100/192, 100/288, 100/333
AJT	SD	600, 750, 900, 1200, 1800, 2400

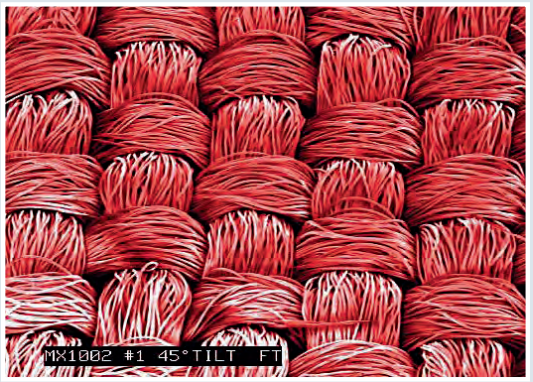
Tepar

FT&FTF

Textured Yarns

Yarns made by TEPAR are known as “false twist” (FT) or “false twist fixed” (FTF) yarns due to the crimp formation being the result of a twisting then un-twisting process at high speed..

- o Tepar Textured Yarns provides innovative, quality yarns to the textile industry
- o Tepar has state-of-art texturing equipment to process polyester and nylon continuous filament yarns of varying deniers, filament counts, lusters, and cross-sections.
- o Tepar has the capability of making specialty yarns, warps for knitting, warps for weaving, and yarns for a wide variety of fabric making machinery.



Available in;

DTY	**Full Dull** **Semi Dull** **Bright** **Cationic** **Dope Dyed**	From Den 12 until 1200

Tepar

MAGIC

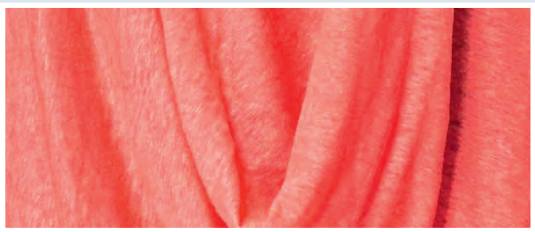
Polyester Yarn With Special Effect

MAGIC™ yarn is 100% Polyester with naturel slub effect and embossed appearance. It is characteristic is soft touch feeling and excellent draping property.

MAGIC™ Yarns are designed in knitting and weaving. This special linen- effect appears after heat set process of the fabric.

MAGIC™ Fabric Benefits include:

- Linen effects
- Naturel looks
- Durable
- Hydrophobic in nature and quick drying
- It is easily washed and dried



Available in;

FDY 150Den
AJT 170Den, 340Den,
450Den and 600Den

Tepar

ECOFIL

100% Recyled Pet Yarn

Ecofil™ is a Filament yarn made from 100% RECYCLED Materials including Post Industrial waste and used bottles

The concept of Eco-Consumption is to change the pattern of consumption to reduce the use of natural resources and avoid poisonous materials, so that we can protect our next generation without sacrifice of our living standart

Worldwide, approximately 7.5 million tons of PET bottles were collected in 2011. In 2009, 3.4 million tons of recycled bottle flakes were used to produce PES fibre, 500,000 tons to produce bottles, 500,000 tons to produce APET sheet, 200,000 tons to produce strapping tape and 100,000 tons for miscellaneous applications. (Source: PCI, www.pcipetpackaging.co.uk)

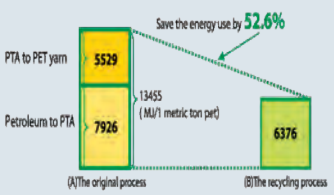
Product Features:

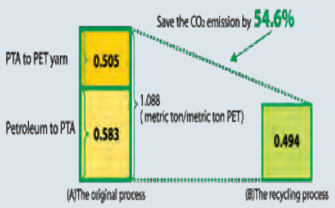
- o Environment friendly
- o 3rd party certified
- o ECOFIL™ recycled yarns and recycled fabrics are free of petrochemicals, conserve natural resources, and reduce the environmental burden

Available in;

DTY:
50Den72f,
75Den72f,
150Den48f,144f
300Den96f,
600Den192f

AJT: from 150Den until 3300Den





Tepar

FLARET

Flame Retardant Pet Yarns

FLARET™ is environmental friendly flame retardant polyester of P (phosphorus) type

Flame retardant agent is anchored into the polymer chain.
Flame retardant performance does not decrease by usage or time

- o Slow combustion and self-extinguishment: Poly-phosphoric acid is created from flame retardant agent by pyrolysis when burning Poly-phosphoric acid is formed a kind of carbon layer (like charcoal), and it cuts off oxygen & ignition energy
- o It has complete versatility in all versions : Solution dyed functionalized PET,UV Stabilized and Anti-Bacterial

LOI, Limit Oxygen Index

The flame retardant characteristics of a material are expressed by its LOI Value. The LOI indicates the minimum amount of oxygen required for a Fibre to burn. Fibers with a higher LOI tend not to burn.

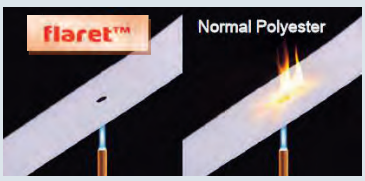
Certifications, Regulatory Framework

Products made with FR yarns meet the requirements set by the main international standards as listed below:

Country	Regulation	Entity	Results
Belgium	NF P92 503.4.5	Centexbel	M1
U.K.	BS 5867	BBTG	Type B
Italy	UNI 9177	CSI-CTS	Class 1
Germany	DIN 4102 Part1	TUV	B1
U.S.A.	NFPA701	Omega POINT	Passed
Denmark	IMO FTPC part 2	DIFT	Passed

Available in;

FDY	SD	50Den36f, 68Den24f, 75Den24f,	75Den36f, 75Den72f, 150Den48f,	150Den96f
	SBR	50Den24f, 75Den36f,	90Den36f, 150Den72f,	300Den144f
DTY	SD			
	SBR	20Den1f, 75Den36f, 75Den72f,	100Den36f, 150Den148f, 150Den96f,	150Den144f, 300Den96f
	DD			
ATY	SD	300Den96f, 500Den144f,	540Den144f, 600Den192f,	650Den192f, 880Den288f, 1000Den288f
	SBR			
	DD	1150Den384f, 1450Den480f,	1700Den576f, 2350Den504f	



The relevant legislation is complex and not fully unified at European and International levels; based on the markets and applications, several different test methods are requested.

Tepar is ready to cooperate with its customers for passing any specific test required.

Tepar

DISCAT Yarns

DISCAT™ AJT and DTY Disperse / Cationic Blend yars.
This feature makes it the ideal choice for natural looks fabrics.

Compared with Regular Disperse Dyes, Cationic Dyes have;
- High Dyeing Power = Lower dyeing cost
- Shades Obtained Rapidly = Shorter dyeing times
- Complete Dye Setting = No subsequent reductive cleaning
- PES and PES Cat mixtures = (Creation of dual-ton effects)
- Lover Dyeing Temperature (Shorter dyeing time)

DISCAT™ CAN BE USED IN ALL TEXTILE SECTORS
- Weaving
- Circular Knitting
- Warp Knitting

Available in;

o DTY Dtex 167/72f,
330/96f and 660/192f
o AJT Dtex 840, 1100
o AJT Dtex 1430, 2000
o AJT Dtex, 2550, 2900
o AJT Dtex 3200 and 3400

Tepar

Polyester UV Protected Yarns

ELITE™ yarn is SOLUTION DYED POLYESTER with UV Protected FDY, AJT & DTY yarns. Stability and color fastness are guaranteed.

Polyester fibers, when exposed to sunlight, degrade, resulting in discoloration and loss of physical properties. Thus, Polyester fibers used in outdoor applications need UV protection. ELITE™ Yarns are designed especially for outdoor applications. They provide a higher level of performance and extend the service life of the final product

ELITE™ fabric benefits include:

- High UV resistance
- Stronger than acrylics
- Excellent tear and abrasion resistance
- Keeps appearance for years
- Dimensionally stable, will not sag or stretch
- Highly water resistant
- Mildew / Mold resistant
- Protected by a 5 year limited warranty

Available in;
FDY 150Den, 300Den
DTY 150Den, 300Den
AJT 450Den, 600Den and 840Den

Tepar

TROLEN

Polypropylene Taslan Yarns

Polypropylene "TASLAN" with the advantage of the lower specific weight of PP. This allows lighter weaves with an equal covering or a more compact fabric with an equal weight.

PROPERTIES OF "TASLAN" YARNS

- o Eco-Friendly Tepar Polypropylene Taslan Yarn is:-
- o 100% Recyclable
- o produced and pigmented without the use of hazardous chemicals and environmentally-harmful dyestuffs (e.g. AZO acids)
- o Less weight is needed to achieve the same volume or feel
- o Has a surface which is impossible to moisten
- o Has a very strong resistance to chemicals
- o Light resistance
- o Fastness to rubbing and washing is significantly better than piece dyed Polyester
- o Always feels warm and dry
- o Does not provide a breeding ground for bacteria and micro-organisms
- o Unaffected in both strength and dimensions by contact with water
- o Non Allergic
- o Fell soft and Neutral

PP Yarns uses are: Upholstery Fabrics, Seating Fabrics, Carpets, Contract, Clothes...

TROLEN Yarn is certified OEKO - TEX Standard 100

Future Friendly

CONFIDENCE IN TEXTILES
Tested for harmful substances
according to Oeko-Tex® Standard 100
084987.0 CENTROCOT

Available in;

- o AJT 360Dtex/172f SD-RD
- o AJT 750Dtex/344f SD-RD
- o AJT 1100Dtex/516f SD-RD
- o AJT 2200Dtex/1032f SD-RD
- o Other counts available upon request
- o Available in unicolor or mélange

Tepar

PET Textured Monofil Yarn

SAKURA™ textured monofilament yarn has a soft touch and excellent drape and a superior sand effect compared to conventional monofilament Yarns.

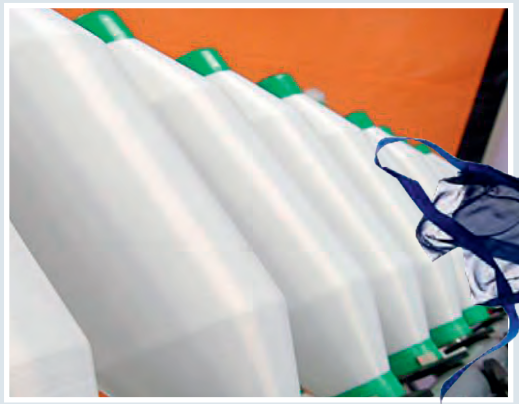
SAKURA™ is evenly crimped textured yarn made with technology developed by Tepar.

SAKURA™ has a shiny transparent look that naturally creates highly expressive shadows. Moreover, despite being extremely thin and light, it is hard to tear. This high added-value fabric combines a delicate graceful look with useful function.

SAKURA™ Yarns Features;

o SAKURA™ yarns has also excellent physical and chemical properties, hence, it is suitable for final processing through its outstanding dyeing ability.

o SAKURA™ yarns can be used in warp and weft



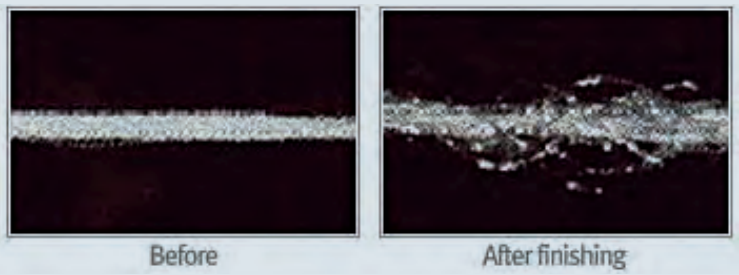
Available in;

DTY: 18Den1f,
20Den1f,
30Den1f

Flame Retardant,
Dope Dyed Black,
Cationic,
Semi dull,
Bright,
High Shrink

Tepar

PET Wool-Like Yarns



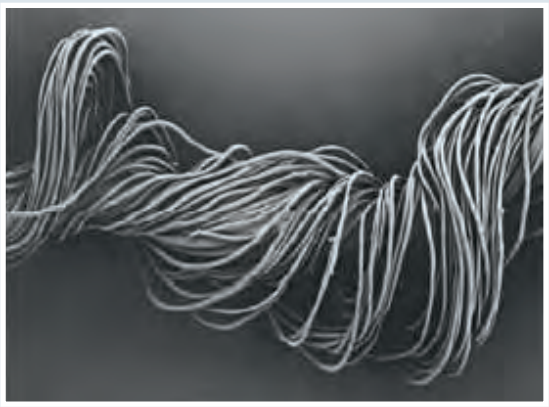
This wool-like material has an excellent drapery and resilience which is achieved by combining two types of polyester filament.

o Excellent Resilience
o Excellent bulkiness by high shrinkage and self-extended yarn
o Full volume & soft touch
o Use in knit and woven fabrics
o Twisting 800~1200 T/M
o Steam Setting: About 85C for 40~60min
o Scouring: Temp. 100C~110C, Rotary washer M/C
o Shrinkage ratio in warp side is about 25~30%

Available in;

DTY	SD	140Den60f, 160Den68f, 240Den96f,

SD: Semi Dull



Tepar

ATMOFIL

DSE Differential-Shrinkage-Elongation PET Yarn

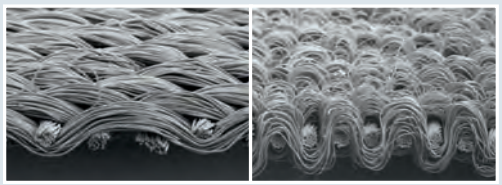
Atmofil™ is a DSE-yarn (Differential-Shrinkage- Elongation) made of polyester, which causes loops and crimps after hydrothermal treatment.

The DSE yarn enables a fascinating variety of applications for the development of tailored materials, which, as you like, can be designed trendily, functionally, and similar to natural fibers.

Atmofil™ is a DSE-yarn (Differential-Shrinkage-Elongation) made of polyester, which causes loops and crimps after hydrothermal treatment. It consists of two yarn components, which are put together by interlacing. The core component shows shrinkage potential of 5-40 % while the functional component reaches an elongation potential of 10-20 %.

Fabric characteristics similar to suede, wool or cotton can be produced, depending on the respective requirement. The popular peach skin-effect or other velvety structures can easily be realized on the surface of the fabric by micro-filament loops. Micro terry cloth and micro velour fabrics are additional typical application fields. As a result, there is a special diversity of applications for garments, home textiles, and technical textiles.

Atmofil™ can be produced in a range of yarn count between 80-800 dtex. It is a warp-tight smooth yarn, which can be woven without any twist and
sizing, thus enabling the production of fabrics that is highly economic.



Raw Fabric | Twill 2/1 Warp Atmofil™ | Finished Fabric (31% Shrinkage) Dtex175F144

Available in;

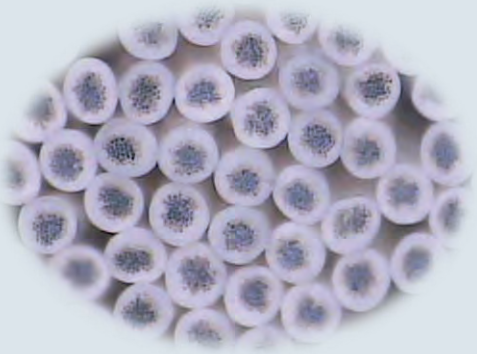
DTY	SD SBR DD	20Den1f, 75Den36f, 75Den72f, 150Den72f, 150Den144f, 300Den144f, 300Den388f, 600Den192f
ATY	SBR	1400Den336f

Tepar

COFIL

Coated Yarns

Environmentally friendly and Flame Retardant PVC Polyester Coated Yarn



- o Flame Retardant
- o Odorless
- o Carcinogen-free PVC compound
- o The vinyl coating on the fibers gives the material added strength and durability
- o Antifungal & Antibacterial
- o Vinyl coated polyester is a very dimensionally stable fabric that does not tear easily, nor will it stretch, crack, rot or mildew.
- o The vinyl coating (PVC) makes it waterproof with a high resistance to dirt, mildew, oil, salt, chemicals and UV.
- o It can be sewn or heat sealed by way of RF(Radio Frequency)welding or hot-air welding

Composition	PVA	73,5%
	PET	26,5%
Weight	0.105 g/m (± 0.003)	
Diameter	∅ 0.40 and 0.50 mm	

APPLICATIONS:

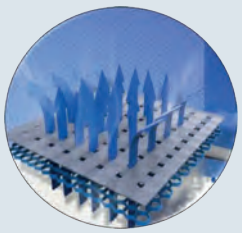
CARPET	CHENILLE YARN
AWNINGS	NETS
BRAIDED YARN	ROPES

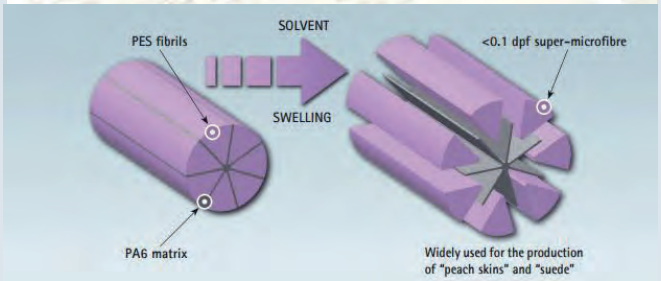
Tepar

Functional&Special Textile Yarns

Recycled
Quick Dry
Cool
Heat
UV -Cut
UV Stabilized
Flame Retardant
Dope Dyed
Full Dull
Anti -Bacterial
Cationic
PBT
PTT
PP
Bi -Component
Micro Filaments

FDY / DTY / ATY





Tepar

High Tenacity Industrial Yarns

- o Flame Retardant PET Industrial Yarns
- o Recycled PET Industrial
- o Dope Dyed PET Industrial Yarns
- o Polyamide 66 Industrial Yarns

Certificate
Natural white FR yarn LOI=41
Dope-dyed black FR yarn LOI=39
(Δ>30)
FR sheet LOI=39

LOI (Limiting Oxygen Index)
Test method : ASTM D2863-1995

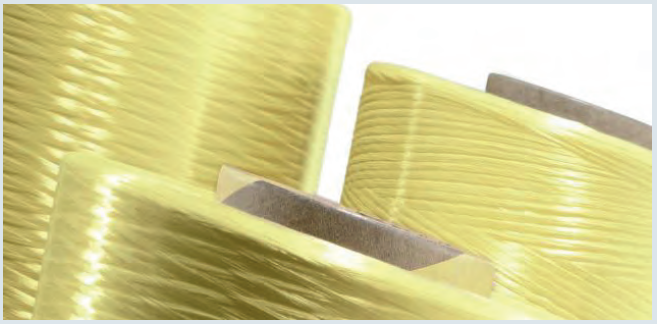
Tepar

Engineered Yarns for protective wear and workwear

The facility can handle below raw materials in 100% and/or in blends

- o Meta - aramid
- o Para- aramid
- o Modacrylic
- o Nylon 66 (DURAFIL®)
- o PPS
- o PEN
- o PEEK
- o PLA
- o PBT
- o PET HE
- o PET HT FR
- o Polyester (regular and FR grade)
- o Homo Polymer Acrylic
- o Anti - static

Spun / Filaments / ATY / DTY

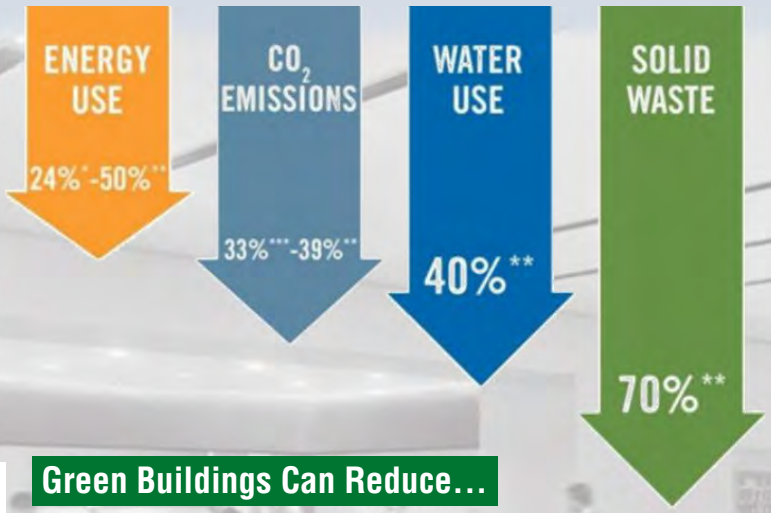


Tepar

Tepar 2020 Project:
Clean Manufacturing Facility

LEADERSHIP IN ENERGY & ENVIRONMENTAL DESIGN
LEED
PLATINUM
2020

Area:
54.000m2



Agrotech | Buildtech | Clothtech
Geotech | Hometech | Indutech
Medtech | Mobiltech | Oekotech
Packtech | Protech | Sporttech

Green Buildings Can Reduce…

Smart use of resources is at the center of the design, and inspiration from nature is the root of the water and energy system for the textile factory

The Exploration design for the zero-waste textile factory aims to eliminate all waste from resource usage.

Harvesting rainwater and reusing grey water are just a few examples of nature-inspired ways to reduce water waste.

Tepar

A cup of coffee commits one to forty years of friendship

Tepar Tekstil Sanayi ve Ticaret A.Ş.

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Certified Quality System
ISO 9001 : 2008