

# Tepar Functional Yarns



Image from Techtextil



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Control Union Gözetim ve Belgelendirme Ltd. Şti.  
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**CERTIFICATE OF COMPLIANCE**  
(Group Certificate)

Certificate No: CU3012086-GRS-2019-00034789  
Registration No: 1032086

Control Union Certificates issued by the  
**Tepar Tekstil San. ve Tic. A.Ş**  
Hadımköy Mahallesi Celal Bayar Caddesi No:2  
34355 Etiler/İstanbul  
Turkey

We have examined and assessed a representative lot of  
Global Recycled Standard (GRS) 4.0

and that products of the category concerned do conform to the standard as it is stated on printed documents.

Yarns

Following category and description of items registered to the responsible standard is shown as follows:  
Spinning, Trading, Exporting

This certificate is valid until  
2020-08-31  
This certificate is valid from  
02.02.2020

Marked as valid of mark

Marked in the mark book

Marked as valid

2019-08-20 İsmir  
Subject of approval service

On behalf of the Managing Director  
Ömer Kaşaklı Çeliker

The certificate cannot be used as a transaction certificate. The issuing body can withdraw this certificate before it expires if the declared conformity is no longer guaranteed. Accredited by International Organization for Standardization (ISO) Contract No:65

Control Union Certifications and Registrations Ltd. Şti.  
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**CONTROL UNION**  
THE INTERNATIONAL MARK CERTIFICATION AND REGISTRATION BODY

HOHENSTEN Textile Testing Institute GmbH & Co. KG  
Schloßstraße 1, 74387 Bönnigheim, Germany

**OEKO-TEX®**  
CONFIDENCE IN TEXTILES

**CERTIFICATE**

The company  
**Tepar Tekstil Sanayi Ve Ticaret A.Ş.**  
Hadımköy Mah. Celal Bayar Cad. No: 1  
34555 Arnavutköy - Hadımköy / İstanbul, TURKEY

is granted authorisation according to STANDARD 100 by OEKO-TEX® to use the STANDARD 100 by OEKO-TEX® mark, based on our test report 18.0.58474

for the following articles:

Raw and dope dyed yarns produced from polyester, cationic dyeable polyester with and without UV treatment, with and without biological active products and flame retardant products accepted by OEKO-TEX®, in colour white made of polyamide, raw and mass dyed yarns produced from polyester (polybutyleneterephthalate), raw 100 % ultra-high molecular weight polyethylene yarns as well as white and masterbatch dyed polypropylene yarns with and without UV treatment, exclusively produced from material certified according to STANDARD 100 by OEKO-TEX®.

The results of the inspection made according to STANDARD 100 by OEKO-TEX®, Appendix 4, product class I have shown that the above mentioned goods meet the human-ecological requirements of the STANDARD 100 by OEKO-TEX® presently established in Appendix 4 for baby articles.

The certified articles fulfil requirements of Annex XVII of REACH (incl. the use of azo colourants, nickel release, etc.), the American requirement regarding total content of lead in children's articles (CPSA, with the exception of accessories made from glass) and of the Chinese standard GB 18401:2010 (labelling requirements were not verified).

The holder of the certificate, who has issued a conformity declaration according to ISO 17050-1, is under an obligation to use the STANDARD 100 by OEKO-TEX® mark only in conjunction with products that conform with the sample initially tested. The conformity is verified by audits.

The certificate 08.MO.57674 is valid until 29.02.2020

Bönnigheim, 04.12.2018

Dr. Ing. (FH) Elisabeth Forster  
Head of Certification Body OEKO-TEX®

OEKO-TEX® Association | Genferstrasse 23 | P.O. Box 2008 | CH-8027 Zurich

**QS QUALITY SERVICE**

**CERTIFICATE**

Certificate no. 14373

**TEPAR TEKSTİL SANAYİ VE TİCARET ANONİM ŞİRKETİ**  
Hadımköy Mahallesi Celal Bayar Caddesi No:1  
TR- Arnavutköy İSTANBUL

QS Zürich AG certifies that the Management System of the above mentioned company has been evaluated and meets the requirements established by the following rules:

**ISO 14001: 2015**

The management system includes:  
**The Design, Development and Production of Synthetic (Polyester, Polyamide and Polypropylene) and Artificial (Rayon, Acetate), Continuous Filaments, Yarns, Poy, Flat and Textured**

Certificates will be renewed every year along 3 years. The certificates which exceed the expiration date are not valid. During the period of validity of this certificate, the management system of the company must always comply with the requirements of the certified standards.

For updated amendments within the scope of certification of the present certificate, please refer to:  
<http://www.quality-service.ch/>

First certification date: 20.01.2018  
Date of issue: 23.11.2018  
Expiration date: 23.01.2020  
Subject to successful surveillance audit!

QS ZÜRICH AG  
P.O. Box 6335  
CH-8000 Zurich  
info@quality-service.ch

**QS QUALITY SERVICE**

**SERTİFİKA**

Sertifika No: 14372

**TEPAR TEKSTİL SANAYİ VE TİCARET ANONİM ŞİRKETİ**  
Hadımköy Mahallesi Celal Bayar Caddesi No:1  
TR- Arnavutköy İSTANBUL

QS Zürich AG, yukarıdaki yazılı olan şirketin yönetim sisteminin incelendiğini ve aşağıdaki kriterler tarafından belirlenen şartları karşıladığını belgelemektedir:

**ISO 9001: 2015**

Yönetim sisteminin kapsamı:  
**Sentetik (Polyester, Poliamid ve Polipropilen) ve Suni (Rayon, Asetat), Sürekli Filament İpliklerin, Poy, Düz ve Tekstüre Üretimi, Tasarımı ve Geliştirilmesi**






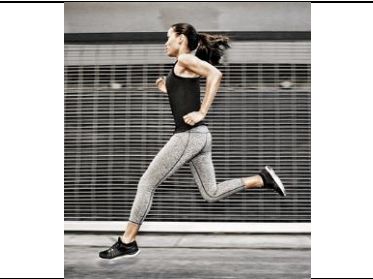




Certificates 3 yıl boyunca her yıl yenilenmektedir. Bütün tarih geçen sertifikaların geçerli değildir. Bu belgenin geçerlilik süresi boyunca, şirketin yönetim sistemi belgelendiği standardın gerekliliklerine her daim uyum zorundadır.

Su anki belgenin kapsamının güncellenmesi değişiklikleri için lütfen [www.qs.ch/aktuelle-baue.htm](http://www.qs.ch/aktuelle-baue.htm) adresine bakınız. <http://www.qs.ch/aktuelle-baue.htm>

İlk belgelendirme tarihi: 20.01.2018  
Yeni tarih: 23.11.2018  
Bilgi tarihi: 23.01.2020  
Başarı güzetim denetimine tabidir


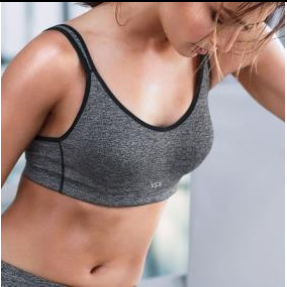






Yönetim











No	Image	Products	Available			Images
1		<p>Sustainability has never been so cool. Now with <b>COOLMAX® Eco Made technology</b>, you no longer have to choose between performance and sustainability.</p> <p>COOLMAX® and THERMOLITE® EcoMade fibers made from 100% textile waste</p>	Textured	Dtex	83f68 167f136	
2		<p>Fabric made with COOLMAX® AIR technology uses yarns with propeller-shaped cross-sections to deliver the combined performance of superior moisture management, breathability, and quick dry time. It provides comfort to help outdoor enthusiasts optimize performance.</p>	Textured	Dtex	78f88 156f176	
3		<p>Fabric made with COOLMAX® CORE technology transports moisture away from the body to keep the wearer cool and dry, helping to optimize performance.</p>	Textured	Dtex	55F48 83F48 167F96	
4		<p>Fabric made with COOLMAX® ALL SEASON technology transports moisture away from the body to keep the wearer cool and dry on hot days, fiber structures provide insulation on colder days.</p>	Textured	Dtex	83f100 167f200	
5		<p><b>FEEL FRESH. BE CONFIDENT.</b> Good moisture management and wicking performance, Good air permeability and fabric stability Use a silver-based technology that helps your clothes. stay fresher longer</p>	Textured	Dtex	83f48 167F96	

6		<p><b>COOLMAX® brand and THERMOLITE®</b> brand are engineered to keep you comfortable longer at different temperatures. Our portfolio of technology solutions, backed by distinctive new consumer-oriented branding, can be used across a variety of garments and other apparel items.</p>	EcoMade	Dtex	83F100 / 167F200	
			freshFX®		83F72 / 167F144	
7		<p><b>THERMOLITE® ALL SEASON technology</b> is engineered to keep the wearer warm and dry, helping to optimize performance.</p>	Textured	Dtex	83f100 167f200	
8		<p><b>THERMOLITE® CORE technology</b> provides lightweight warmth for all activities. It offers functional insulation with excellent durability. THERMOLITE® CORE technology is engineered to keep the wearer warmer longer.</p>	FDY Made-to-order	Dtex	67F48	
9		<p><b>THERMOLITE® INFRARED technology</b> is an innovative solution that is solar activated by the sun, or artificial light sources, using a unique blend of near infrared (NIR) yarns with proprietary additives. The yarns absorb the NIR rays to raise the temperature of the garment, while the system's integrated high-quality insulation traps air and minimizes heat loss.</p>	DTY	Dtex	83f72 167f144	

10		<p>37.5® Technology captures the infrared (IR) energy your body naturally emits. If moisture is present, the active particles use this IR energy to speed evaporation and cool you. If no moisture is present, that same IR energy is returned to your body to warm you. Adapting to an individual’s needs, 37.5®Technology works with each sleeper’s unique IR energy to create a personalized microclimate of comfort.</p>	Textured	Dtex	<p>83f48 83f72 167f96 167f144 330F192 330F288</p>	
11		<p>37.5® Technology helps keep your body at the ideal core temperature of 37.5° Celsius and helps keep the microclimate next to your skin at the ideal relative humidity of 37.5%. When you’re hot, patented active particles embedded in the material remove sweat in the vapor stage before liquid sweat forms, cooling you down. When you’re cold, those same active particles trap your energy to help warm you up.</p>	Textured	Dtex	<p>83f48 83f72 167f96 167f144 330F192 330F288</p>	
12		<p>Third-party testing using the industry standard for biodegradation, ASTM D-5511, has shown that 37.5 products containing the new biodegradation additive decompose by 54% in 341 days reducing to methane, carbon dioxide and a biomass in an estimated 3.35 years if disposed of in a landfill that simulates the conditions found in this standardized test.</p>	Textured	Dtex	<p>83f48 83f72 167f96 167f144 330F192 330F288</p>	<p>FEATURING 37.5® TECHNOLOGY</p> <p>Active particles regulate temperature by speeding evaporation to help cool, or returning the body's own infrared energy to help warm. Naturally derived volcanic mineral particles are permanently embedded in the fabric fibers.</p>
13		<p><b>Full Dull Polyester Yarns</b> Have good tenacity, strength and looks like nature fiber. The raw material for these yarns has been chemically and/or physically modified to reduce their normal luster. Our range of yarn has features of good pendent, soft visual appeal and a strong covering. These yarns find large application in the production of apparels, home-textiles, etc.</p>	Textured	Dtex	<p>55F36, 83F36, 83f72 110F36, 110f96 167F48, 167F96, 167f144</p>	












14		<p><b>DISCAT® is mélange yarns</b> are the ideal way to create multicolored fabrics with a one-step dyeing process. These mélange yarns are the perfect solution for making soft and comfortable on-trend sports and fashionwear.</p>	Textured	Dtex	<p>110F144 167F144 330F96 660F192</p>	
15		<p><b>MATRIX® Technology</b> 0.1-denier microfiber produced by splitting one strand of nylon-polyester conjugated yarn into 16 filaments. Micro powder touch, suede-like product</p>	Textured	Dtex	<p>83F36, 110F36, 167F72, 330F144</p>	
16		<p><b>MIRUS® Technology</b> Heat insulation material with light weight and warm touch by the internal air layer</p> <ul style="list-style-type: none"> <li>• high hollow rate of at least 60%</li> <li>• Quick absorbing and drying by large surface area</li> <li>• Soft touch</li> </ul>	Textured	Dtex	<p>83f36 167f72 330F144</p>	
17		<p><b>VELOX® PBT Stretch Yarns</b> Polybutylene terephthalate (PBT) Elastic, soft and resistant and takes dye well, even when blended with other types of fibers.</p> <ul style="list-style-type: none"> <li>• Chlorine resistant</li> <li>• Quick drying</li> <li>• Longer-lasting fabrics</li> </ul>	Textured	Dtex	<p>22F9 55F24 78F24 156F48 330F96 660F192</p>	



18		<p><b>100% Cationic Polyester Yarns</b> It is polymerized with compositions that include sulphonyl acid radical. Because of the existence of sulphonyl acid radical, the combination ability of the yarn with dye molecule is enhanced, improving dye ability of yarn.</p>	Textured	Dtex	<p>55F72 83F72 110F144 167f144 330f288</p>	
19		<p><b>Heather Effect DTY</b> is kind of specialty yarn made by using special textured technology and several different kinds of raw material. Combining with Cationic dyeable yarn with other polyester (Virgin or Recycle) yarn, the fabric will show two tone or three tone special mélange effect.</p>	Textured (Short, Medium, Long Mélange can be designed)	Dtex	<p>83F76 110F144 167F144</p>	
20		<p><b>KARADENIZ Effect DTY</b> is kind of specialty yarn made by using special textured technology and several different kinds of raw material. Combining with Cationic dyeable yarn with other polyester, virgin and Recycled</p>	Textured "Long Stripes" Mélange	Dtex	<p>330F288 167F144 110F144</p>	
21		<p><b>MARMARA Effect DTY</b> is kind of specialty yarn made by using special textured technology and several different kinds of raw material. Combining with Cationic dyeable yarn with other polyester, virgin and Recycled</p>	Textured "Short stripes" Mélange	Dtex	<p>330F288 167F144 110F144</p>	

22		<p><b>EGE Effect DTY</b> is kind of specialty yarn made by using special textured technology and several different kinds of raw material. Combining with Cationic dyeable yarn with other polyester, virgin and Recycled</p>	Textured "Medium Stripes" Mélange	Dtex	330F288 167F144 110F144	
23		<p><b>MICROFIBER™ Textured Yarns</b> The degree of fineness (D/F) for a single fiber for the polyester microfiber yarn is below 0.5. Because of the low fiber degree of fineness increases the surface area, fabrics made with this yarn are extremely delicate and soft to the touch, as well as effective at absorbing moisture and fast drying.</p>	Textured	Dtex	38f72, 38f96, 55f72, 55f96, 83f96, 83f144, 110f144,110f192, 110f288,110f333 167f192, 167f288, 330f576	
24		<p>Knit de knit (kDk) is a special technique of creating a textured yarn. Whereas special machines are used with other texturing techniques, kDk relies on circular knitting and heat setting.</p>	KDK	Dtex	55,83, 110,167, 330,500, 660	
25		<p>polyester <b>chemical recycling system</b> technology, using waste clothing, scraps, and other waste polyester materials as initial raw materials, through thorough chemical</p>	Textured Flat	Dtex	33/24F-36F-72F 55/36F-72F-144F 83/36F-72F-144F 110/36F-72F-96F-144F-288F 167/36F-48-72-96F-144F 288F 330/72F-96F-144F-288F	



26	 	<p><b>100% RECYCLED YARNS</b>                  Billions of plastic bottles go into landfills every year. REPREVE is the leading, most trusted, branded performance fiber made from recycled materials (including plastic bottles). Buy products made with REPREVE to make a difference.</p>	Textured (DTY) Flat Yarn (FDY)	Dtex	55F36 55F72 83F36 83F72 110F36 110F96 167F48 167F144	
27	 	<p><b>REPREVE Our Ocean</b> can be combined with technologies such as moisture management, thermal comfort, and engineered stretch. And you can embed more than one technology into most fibers for edge-to-edge performance.</p>	Textured	Dtex	83F72 110F96 167F144	
28		<p><b>Polyamide 6 and 6.6 Filament Yarns</b>                  Various items including micro fine denier yarn and high-functional yarns - quick drying yarn, hollow yarn, high-tenacity yarn, high-stretch yarn, etc.</p>	FDY DTY AJT	Dtex	BR, TBR, SD, FD  From 22 up to 230	
29	 	<p><b>Eco Nylon</b> is a <b>recycled nylon 6 yarn</b> 100% made of pre-consumer waste.</p> <ul style="list-style-type: none"> <li>reduces dependence on non-renewable resources.</li> <li>It maintains a clean land field.</li> <li>It decreases environmental impact</li> </ul>	FDY DTY AJT	Dtex	BR, TBR, SD, FD  From 22 up to 230	

30		<p><b>CuX Antibacterial Cupric ion Fiber</b> Kill rate over 99%, Excellent antibacterial Performance, No harm to human body. Effectiveness and Durability, it remains over 99% antibacterial rate after 80 times of wash.</p>	Textured	Dtex	55/36、 55/72、 83/48、 83/72、 110/72、 110/144、 167/96、 167/144、 330/192		
COMMODITIES		<p>Flat yarns: 22 to 300 dtex Textured yarns: 35 to 4,000 dtex capillary cross sections: Round, trilobal, triangular, We use two different manufacturing processes for our textured yarns: DTY = draw textured yarn ATY = air textured yarn</p>	DTY ATY	Dtex	SD FD TBR DDB DDC	33f24, 55f36,55f72, 83f36,83f72,83f144, 110f36,110f96,110f144 167f36,167f48,167f96, 167f288, 330f72,330f96,330f288	
	31		<p>High tenacity <b>air jet textured</b> Polyamide 6,6 filament yarns Offer Enhanced Tear and Abrasion Resistance.</p>	AJT	Dtex	SBR	370,550, 770,1050
32		<p><b>COOLER MASTER™</b>, made from Polyethylene (LLDPE), a synthetic fiber composed of exceptionally long chains of polymers with an extremely high percent of parallel orientations and high level of crystallinity</p>	Flat	Dtex	Raw white optical white 220, 330 and 440		

33		<p><b>VALENS®</b> is the ultrahigh molecular weight polyethylene (<b>UHMWPE</b>) fiber manufactured by a unique spinning technology. VALENS® shows high tensile strength, high modulus, high durability, and other useful property enough to called ‘Super Fiber’.</p>	Flat	Dtex	33,55, 110, 220,330, 440,660, 1100,1670,1800,3300	
34		<p><b>COFIL® is an Environmentally friendly and Flame-Retardant PVC Polyester Coated Yarn.</b> Sunscreen is PVC coated polyester woven fabric with special functions such as fire retardant, UV blockage, reducing the heat gain and glare, strong color fastness.</p>		Dtex 850- 1100-2200 3000		
35	 	<p><b>SAKURA™ textured</b> split yarn has a soft touch and excellent drape and a superiors and effect compared to the more Conventional monofilament <b>TEXTURED</b> Yarns.</p>	Textured	SD High Shrink REPREVE DDB	Dtex 22f1	
36	 	<p>MONO filament has elegant dry touch &amp; luxurious transparency</p> <ul style="list-style-type: none"> <li>• Luxurious appearance and unique luster</li> <li>• Outstanding workability during direct warping</li> <li>• Large packaging improves productivity</li> <li>• Various product ranges to allow wide selection</li> </ul>	FDY	SD BR DDB FR REPREVE  Nylon 6	22F1, 33F1, 44F1, 50F1, 55F1  22F1, 33F1	



37		<p>Exterior filament is coated by low-melting polyester. Upon dry-heat processing, exterior part melted. Ezbon is an eco-friendly material generating contact between filaments. Twisted Ezbon yarns also available on request</p>	FDY & ATY	SD	78F24, 110F48, 150F48	
38		<p><b>Permanently Flame Retardant</b> without the use of additional finishes                  High abrasion resistance                  Innovative products through continuous development of Tepar Filaments                  No afterglow, very low emission of fumes in the event of fire                  Meets the important international fire protection standards. P. content of <b>6500 ppm</b></p>	AJT DTY	Dtex SD	83F36, 83F72, 110F36, 167F48, 167F96, 167F144, 330F96, 330F288	
39		<ul style="list-style-type: none"> <li>▪ Cotton Like</li> <li>▪ Linen Like</li> <li>▪ Wool like</li> <li>▪ Silk like</li> <li>▪ Viscose like</li> <li>▪ Acetate like</li> <li>▪ KDK yarn</li> <li>▪ Sable Yarn</li> </ul>	DTY AJT	Dtex SD FD TBR	From Dtex 82 up to 3500	
40		<p><b>PET &amp; PA 6 and 66 INDUSTRIAL YARNS</b>                  Low Shrinkage, Anti-Wicking                  Adhesive Activated, Dope Dyed, Recycled / Bio, Flame Retardant, Mooring</p>	FDY	Dtex BR	<p><b>PET</b> From Dtex 33 up to 4400  <b>PA 66</b> from Dtex 110 up to 2800</p>	

41		<p><b>Para-aramid fibres</b> are low density, with very good tensile properties. Stronger than steel, high tenacity, high modulus fibre and delivers high retained strength after heat ageing at elevated temperatures.</p>	FDY	Dtex	930,1100,1670 and 3300	
			Spun Yarn	Ne	10, 20,30	
42		<p><b>Yarn engineering</b> is the process of constructing yarn using procedures designed to change its properties. Engineered yarns are made using two or more components, the combinations are endless.</p>		Filament Spun	<b>Make-To-Order</b>	Customized production
			43			

**Available yarn counts in filament yarns.**

Flat yarns: 22 to 330 Dtex

Textured yarns: 22 to 4,500 Dtex

Cross sections: Round, trilobal, triangular,

**Textured yarns** - the manufacturing process

We use two different manufacturing processes for our textured yarns:

DTY = drawn textured yarn (false twist textured)

ATY = air textured yarn (air jet textured)

Technical properties of DTY yarn with different heating techniques can be used to make the yarn set for specific use, 1 (one) Heater DTY is normally woolly & more stretchable as compared to DTY with 2 (two) Heater.

DTY yarn can be made with several combinations of Intermingle or Interlaced points - it can be Non-Intermingled or Soft-Intermingled or High-Intermingled.