

HONGDATEX®
Leading Outdoor Fabric Manufacturer *Since 1995*

OUTDOOR Shade Fabrics

户外遮阳功能性面料

Engineered Outdoor Sunshade
Systems for Premium
OEM/ODM Programs

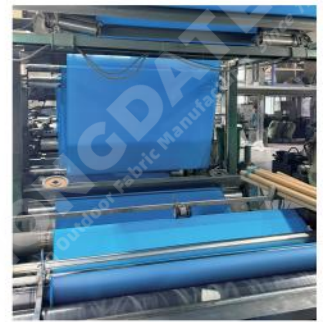
面向高端OEM/ODM生产的
户外遮阳防水系统



“ We don't sell fabric,
we are a full-process manufacturer that
transforms fabrics into controllable engineering systems.”

“ 我们不只卖布，我们是让面料变成可控工程系统的全流程制造商。”

A handwritten signature in Chinese characters, likely belonging to a company representative, written in black ink.



Product Use

面料应用场景 / 户外防水遮阳



Patio Umbrella 罗马伞



Four-Corner Tent 四角篷



Sun Shade Sail 遮阳帆



Beach Umbrella
沙滩伞



Disaster Relief Tent
救灾帐篷



Why Outdoor Shade Fabric are **Risk-Sensitive** Products?

为什么户外遮阳布是高风险品？

Shade Fabric products are not “fabric products”.
They are high-risk, highly engineered outdoor systems.

遮阳布不是“布料产品”，它是一个高风险、强工程属性的户外系统。

Weathering Degradation

我们能解决耐候性衰退

Weathering Degradation Risk Chain / 耐候性失效链 ▾

Weathering degradation of outdoor shading products = UV exposure + heat accumulation + humidity cycling + unstable color system + insufficient UV protection → fading, whitening, brittleness, and appearance degradation.

户外遮阳产品耐候性衰退 = 紫外暴晒 + 热积累 + 湿热循环 + 着色体系不稳 + 抗UV保护不足 → 褪色、发白、脆化、外观衰退。



HongdaTEX Technical Chain / 技术链 ▾



Material Chain
材料链



Coating Chain
涂层链



Process Chain
工艺链

- Outdoor-Grade Polyester Base Fabric
户外级聚酯基布
- UV-Resistant Coating Formulation
抗UV涂层配方体系

- Uniform Coating Application
涂层均匀沉积控制
- Color-Locking Process Control
固色锁色工艺控制

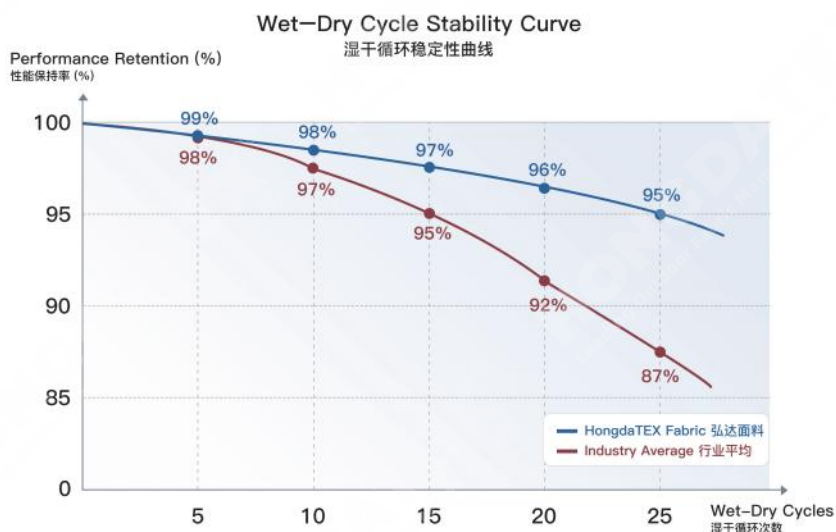
- UV Aging Test
紫外老化测试
- Weathering Exposure Validation
耐候暴晒验证

HongdaTEX Solution Chain / 解决链 ▾

- 1 Outdoor-Stable Coloration System
户外稳定着色体系
- 2 Enhanced UV Resistance Package
强化抗UV保护体系
- 3 Long-Term Weathering Validation
长周期耐候验证

HongdaTEX ensures that shading fabrics maintain more stable outdoor weather resistance through precise control over coloring, coating, and production processes.

HongdaTEX通过从着色、涂层、工艺控制，确保遮阳面料保持更稳定的户外耐候性能。



Waterproof Performance Degradation

我们能解决防水性能衰退

Waterproof Failure Risk Chain / 防水失效链 ▼

Outdoor shading waterproof failure = loose fabric structure + uneven coating thickness + insufficient curing + repeated sun and rain exposure → reduced water repellency, hydrostatic decline, and localized leakage.

户外遮阳产品防水失效 = 织物结构疏松 + 涂层厚度不稳 + 固化不足 + 反复日晒雨淋 → 泼水性下降、静水压衰退、局部渗水。



HongdaTEX Technical Chain / 技术链 ▼



Material Chain
材料链

- Outdoor-Grade Waterproof Yarn
户外级防水纱线
- Low-Wicking Yarn System
低导水纱线体系



Process Chain
工艺链

- High-Density Waterproof Coating
高密度防水涂层
- Stable Coating Thickness Control
稳定涂层厚度控制



Quality Chain
质量链

- Water Pressure Sealing Test
水压密封测试
- Water Repellency Validation
防泼水性验证

HongdaTEX Solution Chain / 解决链 ▼

- 1 High-Performance Waterproofing
高性能防水体系
- 2 Structural Barrier Reinforcement
结构防渗强化
- 3 Pressure & Aging Validation
压力+老化联合验证

Through a three-layer evidence chain, HongdaTEX ensures folding outdoor shade fabrics maintain long-term waterproof stability, preventing leakage, dampness, and performance degradation.

HongdaTEX通过三段证据链，确保户外遮阳面料长期保持防水稳定性，防渗漏、不返潮、不失效。

Hydrostatic Pressure Retention Curve

耐水压保持曲线

Hydrostatic Pressure (mmH₂O)
耐水压值 (毫米水柱)



Sagging & Deformation

我们能解决下垂变形

Structural Stability Failure Chain / 结构稳定失效链 ▾

Outdoor shading fabric deformation = unstable yarn shrinkage + insufficient warp-weft balance + inadequate heat setting + long-term tension load → sagging, wrinkling, and deformation.

户外遮阳面料形变 = 纱线收缩不稳 + 经纬平衡不足 + 定型锁定不够 + 长期张力负载 → 下垂、起皱、变形。



HongdaTEX Technical Chain / 技术链 ▾



Structural Chain
结构链

- Balanced Structural Fabric Design
平衡型织物结构设计
- Controlled Extensibility Base Fabric
可控延伸型基布体系



Process Chain
工艺链

- Warp/Weft Tension Balancing
经纬张力平衡控制
- Dimensional Locking Process
尺寸锁定工艺控制



Quality Chain
质量链

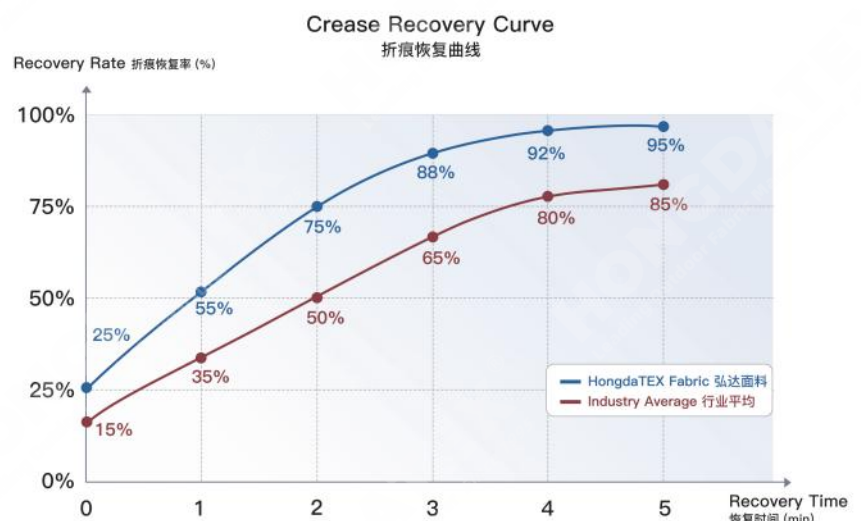
- Load Creep Test
负载蠕变测试
- Shape Retention Under Load Test
承载变形测试

HongdaTEX Solution Chain / 解决链 ▾

- 1 Coating Structural Support
涂层结构支撑
- 2 Locked Heat-Setting Parameters
定型参数锁定
- 3 Balanced Fabric Structure
平衡型织物结构

HongdaTEX ensures shade fabrics maintain a sag-free, shape-stable premium appearance over time through a three-stage evidence chain.

HongdaTEX通过三段证据链，确保遮阳面料长期保持不下垂、不形变的高端外观表现。



Tearing : We Can Prevent Tearing

我们能解决撕裂

Tearing Risk Chain / 抗撕裂失效链 ▾

Main cause of tearing = Insufficient base strength + weak structural support + stress concentration at edges and seams + repeated fluttering under wind → initial cracking, tear propagation, edge failure, and system breakdown.

撕裂主因 = 基布强力不足 + 结构支撑不够 + 边角与缝口应力集中 + 风拍反复作用 → 初裂、扩裂、边角破坏、整体失效。



HongdaTEX Technical Chain / 技术链 ▾



Material Chain
材料链

- High-Toughness HT-Polyester
高强度涤纶 (600D / 900D / 1680D)
- Higher Density Weaving
高密度织造



Coating Chain
涂层链

- Stable Weaving Consistency
稳定织造一致性
- Stable Coating Thickness
涂层厚度稳定



Process Chain
工艺链

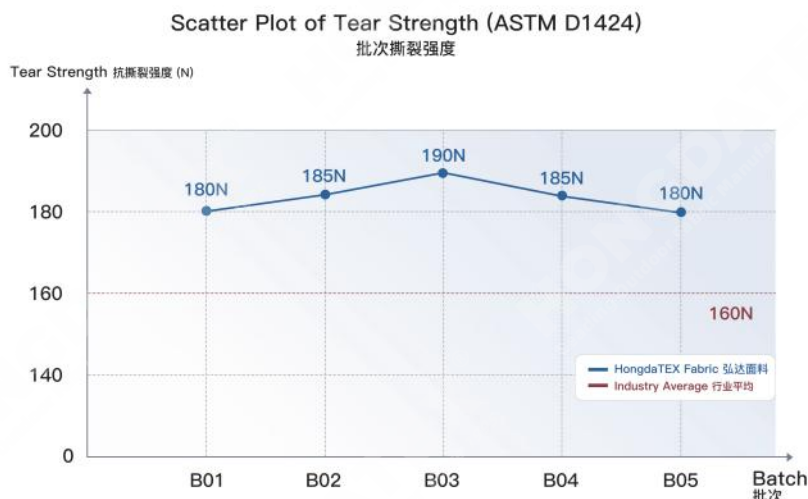
- Batch Tear Strength Testing
批次撕裂强度检测
- Tear Variation $\leq 10-15\%$
撕裂波动控制 $\leq 10-15\%$

HongdaTEX Solution Chain / 解决链 ▾

- 1 High-Strength Structural Base Fabric
高强结构型基布
- 2 Better Resistance to Initial Cracking
更强的初裂抵抗能力
- 3 Reduced Tear Propagation Tendency
降低裂口扩散趋势

Through a three-layer evidence chain,
HongdaTEX enhances tear strength
and completely cuts off the tear
propagation pathway.

HongdaTEX通过三段证据链, 将撕裂强度提升,
彻底切断撕裂扩散链路。



How We Ensure Stable Quality

我们如何保证质量稳定

We operate a well-equipped in-house testing center capable of conducting precise testing across multiple performance criteria.

All key performance tests are carried out in accordance with internationally recognized standards, ensuring quality control throughout the entire process.

我们拥有设备齐全的内部检测中心，能够对产品做多种项目的精确检测，所有关键性能测试均按照国际公认标准进行，全程检测，把控品质。



Water Pressure Resistance Tester
耐水压测试仪



Electronic Fabric Strength Tester
电子织物强力机



Friction Color Fastness Tester
摩擦色牢度仪



Digital Elmendorf Tearing Tester
织物撕裂测试仪



Double-Beam Color Spectrophotometer
双光束分光测色仪



Formaldehyde Meter
甲醛测定仪



Fabric Flame Retardant Tester
织物阻燃性能测试仪



Shrinkage Testing Oven
缩水率烘箱

How We Ensure Supply Chain Stability

我们如何保证供应链的稳定性



Weaving 织造



Dyeing 染整



Coating 涂层



Testing Lab 实验检测



Warehouse 仓库

From Yarn to Finished Fabric, One-stop Full-process Manufacturer

加弹，织造，染整，涂层一体化全流程制造商

Outsourcing
= 0%
零外包

OTIF
≥ 95%
准交率 ≥95%

Coating &
Heat-Setting
Lines
涂层&定型产线

100%
Production
Line Control
产线控制力100%

Solution Dyeing Technology

原液着色技术

We adopt advanced solution-dyed fabric technology, which completes dyeing and color locking at the fiber stage. This enables the fabric to remain durable and stable in performance even in harsh outdoor conditions such as high temperature and humidity.

我们采用先进原液着色面料技术，纤维阶段即完成着色锁色，让面料在高温潮湿等复杂的户外环境下，依旧持久耐用、性能稳定。



Solution Dyeing Technology vs. Conventional Dyeing / 原液着色技术相比于普通染色

- **Superior UV & Color Fastness**
Meets high AATCC/ISO standards, ensuring long-lasting fade resistance
卓越抗紫外线与色牢度，满足 AATCC/ISO 行业高标准，户外强光下长效抗褪色
- **More Stable Waterproofing Base**
Anti-aging yarns provide stronger coating adhesion for durable waterproofing
更稳定的防水基底，纱线抗老化，为后道涂层提供更强附着力，防水更持久
- **Service Life Doubled**
Enhanced weather resistance drastically slows fabric degradation in extreme environments.
使用寿命翻倍，综合耐候性跃升，极端环境下物理强力衰减极慢

Eco-Textile

环保面料

HongdaTEX is committed to responsible and sustainable textile solutions.

All fabrics we supply are safe, eco-friendly, and non-toxic, and are free from harmful, allergenic, and carcinogenic substances.

弘达致力于负责任的环保与可持续面料开发，
我们所提供的面料安全、环保、无毒，
不含有害、致敏及致癌物质。



Our environmental compliance goes beyond certificates—it is built on a traceable chain of evidence: TC-based batch traceability, REACH SVHC testing, and **PFAS-Free** control verification, ensuring every delivery remains continuously compliant.

我们的环保合规不止于证书，更在于可追溯的证据链：

TC 批次追溯、REACH SVHC 检测、**无氟**管控验证，确保每一批交付持续合规。

Third-party Testing Supported



第三方检测认证

Our fabrics are tested and verified by SGS laboratories, meeting international testing standards from raw materials to finished fabrics. Rigorous evaluation ensures consistent quality, safety, and performance you can rely on.

我们的面料经 SGS 实验室检测与验证，从原材料到成品均符合国际检测标准，通过严格测试，确保每一块面料在品质、安全性及稳定性上的可靠表现



SVHC Test Report
(249 Substances, EU REACH)
欧盟 REACH SVHC 249 项检测报告



Total Fluorine Screening Test
总氟筛查测试报告



Formaldehyde Test Report
甲醛测试报告



RoHS Heavy Metal Test — Cadmium (Cd)
RoHS重金属测试-镉(Cd)



pH Value Test Report
pH值测试报告



Organotin Compounds Test Report
有机锡化合物测试报告

Product Innovation

产品创新

We go beyond fabric supply to offer tailored fabric design solutions. From product concept to application needs, we integrate structure, performance, and aesthetics to create fabric solutions aligned with your product vision.

我们不仅提供面料，更为您设计面料，
从产品理念到应用需求，我们将结构、性能与美学相结合，为客户打造契合产品定位的面料解决方案。



We are committed to leading the industry forward through continuous product innovation. Our R&D team is always focused on market demands, combining the latest technologies to introduce high-performance fabrics that align with future trends.

弘达致力于通过持续的产品创新，引领行业的前沿发展，我们的研发团队始终关注市场需求，结合最新科技，推出符合未来趋势的高性能面料。



HongdaTEX Designer
弘达面料设计师

Why HongdaTEX?

为什么选择弘达？



30 years of consistent service and product delivery

从服务到产品交付，我们30年来始终如一



Full Supply Chain Capability

全产业链能力

Engineering Standards

工程化标准

Stable Delivery System

稳定交付体系



Why We are Trustworthy?

我们为什么值得信赖？



01 30+ Years Manufacturing Experience
30多年制造经验的工厂



02 Advanced Testing Labs Ensure Quality
先进实验室确保质量



03 Partnership with Global Top 100 Enterprises
全球百强企业供应合作

04 Featured by CCTV
央视报道

Global Compliance & Credibility Framework

全球合规与信誉背书体系



Z1 – Sunlit Drift (晨光织影系列)

Engineering Story 技术故事

Crafted for elegant outdoor shade, this fabric combines a light visual texture with stable color performance, making it ideal for Roman umbrellas, beach umbrellas, and refined sunshade products.

为优雅户外遮阳而设计，这款面料兼具轻盈细腻的视觉质感与稳定的色彩表现，适用于罗马伞、沙滩伞及各类精致遮阳产品。



Water Repellency (AATCC 22-17) 防泼水等级	Grade 4
Light Fastness (AATCC 16.3) 光照色牢度	400h / Grade 4
UPF Rating 防晒等级	UPF 50+

100% Fabric Customization 支持100%面料定制



Z2 – Sky Canopy (云幕系列)

Engineering Story 技术故事

Developed for large shade surfaces, this fabric offers a smooth spread, balanced tension, and stable structure, helping awnings and outdoor shade systems maintain a neat and composed appearance over time.

我们为雨季而生。通过在1800D超高密度纤维背面复合物理防水涂层，我们不仅打造了一层坚韧的“皮肤”，更建立了一道抵御潮气的防线，让您的户外家具在风雨后依然保持极致干爽。



UPF Rating 防晒等级	UPF 50+
Light Fastness (AATCC 16.3) 光照色牢度	400h / Grade 4
Hydrostatic Pressure Rating 静水压等级	≥ 1000mm

100% Fabric Customization 支持100%面料定制



Z3 – Coastline Aura (海岸光域系列)

Engineering Story 技术故事

Inspired by premium coastal living, this fabric blends refined texture, elegant color expression, and durable outdoor performance, fitting high-end awnings, umbrellas, and architectural shade applications.

灵感来自高端海岸户外生活方式，这款面料融合了细腻质感、优雅色彩表现与耐用户外性能，适用于高端遮阳篷、遮阳伞及建筑遮阳应用。



Water Repellency (AATCC 22-17)
防泼水等级

Grade 4

Environmental Requirements
环保要求

REACH

Fluorine-Free 无氟

100% Fabric Customization 支持100%面料定制



Z4 – Sunveil (沐光系列)

Engineering Story 技术故事

Made for long hours of sun exposure, this fabric is designed to preserve color clarity, reduce visible aging, and keep shade products looking fresher and more refined throughout extended outdoor use.

针对长时间日晒场景而开发，这款面料旨在保持色彩清晰度、减缓可视老化，让遮阳产品在长期户外使用中依然显得更新鲜、更精致。



Water Repellency (AATCC 22-17) 防泼水等级	Grade 4
Hydrostatic Pressure Rating 静水压等级	≥ 2000mm
Light Fastness (AATCC 16.3) 光照色牢度	300h / Grade 4

100% Fabric Customization 支持100%面料定制



Z5 – Shadow Dome (穹影系列)

Engineering Story 技术故事

Created for protective outdoor shade, this fabric combines light blocking, heat reflection, and dependable weather resistance, making it suitable for outdoor umbrella, tents, canopies, and temporary shelter applications.

面向防护型户外遮阳应用开发，这款面料结合了遮光、隔热反射与可靠耐候性能，适用于户外伞、帐篷、天幕及临时遮阳棚等场景。



UPF Rating
防晒等级

UPF 50+

Environmental Requirements
环保要求

REACH

Fluorine-Free 无氟

100% Fabric Customization 支持100%面料定制



Z6 – Windform (风屿系列)

Engineering Story 技术故事

Engineered for wind-exposed outdoor use, this fabric delivers stronger support, better tear resistance, and more reliable performance during stretching, folding, and repeated movement in dynamic environments.

面向受风环境下的户外使用而设计，这款面料具备更强支撑性、更佳抗撕裂表现，并能在拉伸、折叠与动态使用中保持更可靠的性能。



Environmental Requirements
环保要求

REACH

Azo-Free 无偶氮

Fluorine-Free 无氟

100% Fabric Customization 支持100%面料定制

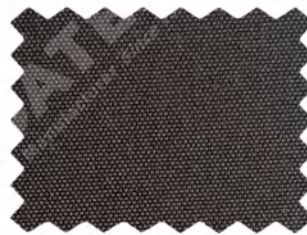




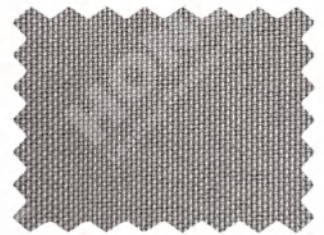
(HD26-55) 500D 350GSM PVC
WR 6000mm



(HD26-63) 400*300D 110GSM
PU



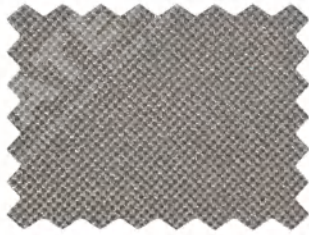
(HD26-65) 300D 230GSM PU
WR 2000mm Yarn-Dyed



(HD26-71) 180GSM PU WR



(HD26-82) 420D 325GSM PU
WR



(HD-DT-0068-PU) 400*400D
225GSM PU



(HD-DT-0116-PVC) 400*300D
540GSM PVC



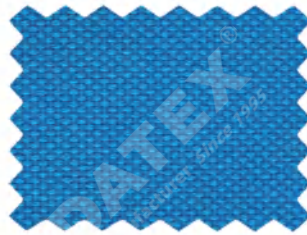
(HD26-73) 180GSM PU
WR 3000mm



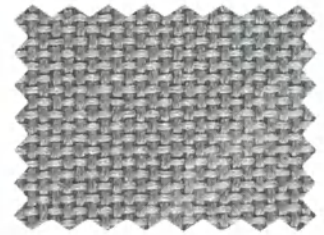
(HD-CS-0147-PU) 150D
105GSM PU FDY WR



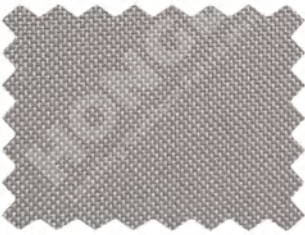
(HD26-33) 500D 210GSM PU



(HD-DT-0113-PU) 500*500D
290GSM PU



(HD-DT-0124-PVC) 400*400D
355GSM PVC



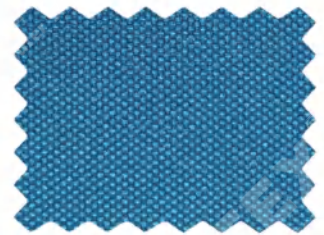
(HD-CS-0148-PU) 210*210D
70GSM FDY PU



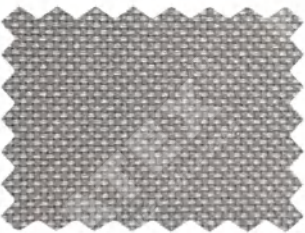
(HD-DT-0066-PVC) 300*300D
520GSM PVC



(HD26-P-001-PU) 500*500D
185GSM PU



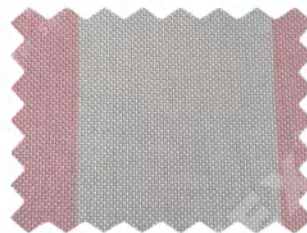
(HD-DT-0115-PU) 500*500D
195GSM PU WR



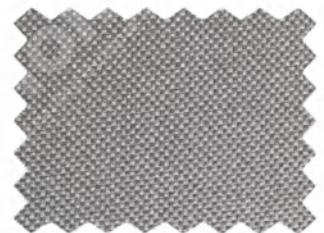
(HD-DT-0125-PVC) 400*400D
400GSM PVC DTY



(HD-DT-0112-PU) 500*500D
200GSM PU



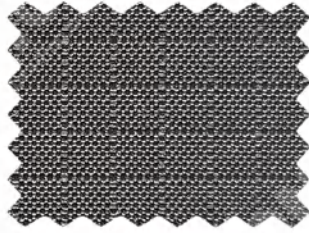
(HD-DT-0096-PVC) 600*600D
640GSM PVC



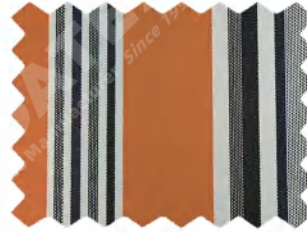
(HD-DT-0087-PVC) 400*400D
425GSM PVC



(HD26-04) 300D 320GSM PVC
WR



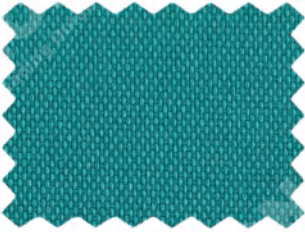
(HD26-12) 600D 430GSM PVC



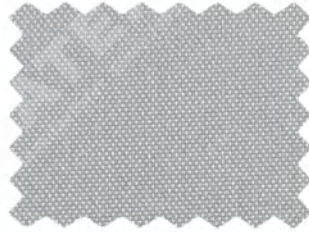
(HD26-19) 280GSM PU WR
Yarn-Dyed



(HD26-25) 240GSM PU WR
UPF50+ Fire Resistance



(HD26-49) 500D 280GSM PU
Europe Eco-Label



(HD26-26) 240GSM PU WR
UPF50+ Fire Resistance



(HD26-32) 500D 210GSM PU



(HD26-20) 280GSM PU WR
Yarn-Dyed



(HD26-35) 400D 380GSM PVC



(HD26-36) 300D 160GSM PU



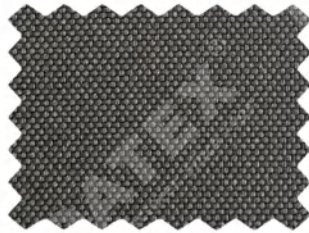
(HD26-37) 300D 165GSM PU



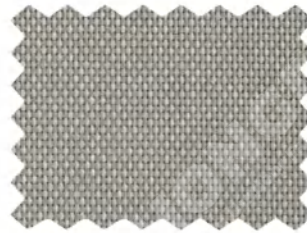
(HD26-21) 280GSM PU WR
Yarn-Dyed



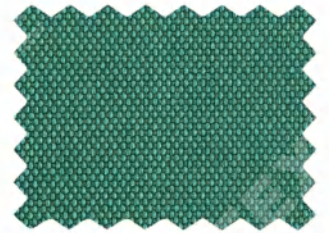
(HD26-42) 900*750D 280GSM
PU UV40+



(HD26-43) 600D 240GSM PU
WR 1000mm



(HD26-45) 600D 220GSM ULY
WR Yarn-Dyed



(HD26-50) 400D 130GSM PU
WR RPET



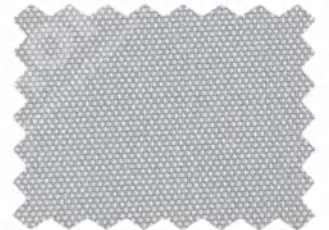
(HD26-44) 600D 240GSM PU
Yarn-Dyed



(HD26-51) 600D 130GSM PVC
WR

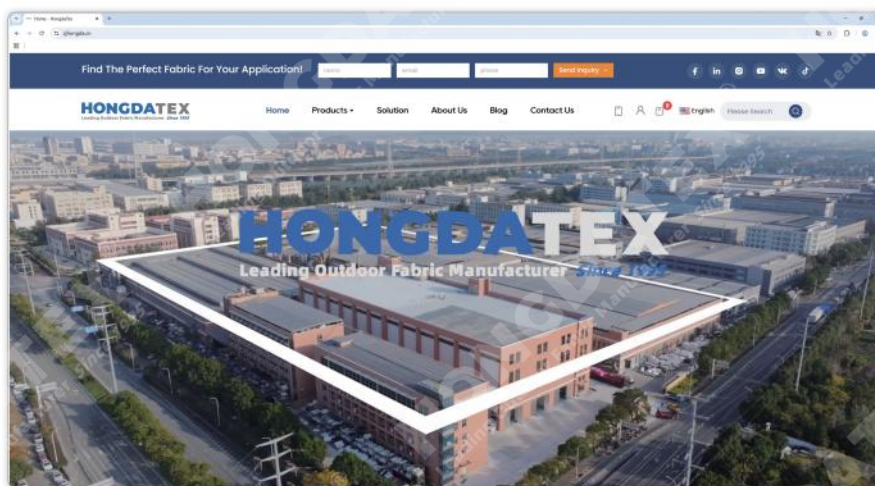


(HD26-52) 900D 360GSM PU
WR



(HD26-53) 600D 240GSM PU
WR

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