LUXCUSHION Tuntex

Nore Than Comfort

LUXCUSHION[™]

Aims to Create a Delightful Living Environment with Ensured Comfort and Wellbeing.

For over 50 years, creating a more sustainable and healthier living environment has been Tuntext's ultimate goal. The innovation of LuxCushion[™] takes one step further to achieve that goal. It's a revolutionary technology that is completely different from typical backing systems, a cutting-edge invention to redefine comfort and softness of carpet.



Revolutionary New Backing System



nexlon[™] – premium 01 solution dyed nylon 02 **Reinforced fiber glass** LuxCushion[™] – repurposed 03 high resilience nylon



Patented Technology Unique Sandwich Design

Chinese Patent No.: ZL 2020 1 0199802.5 United States Patent No.: US 11,668,046B2

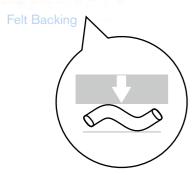
Creative Backing Structure

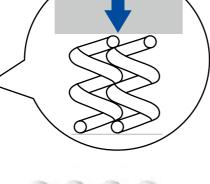
Different from typical backing systems, LuxCushion[™] repurposes high resilience nylon that is a byproduct from yarn wasted during carpet manufacturing process. Compared to typical felt or foam backing, LuxCushion[™] shows a superior resilience performance thanks to its unique 3D structure. Tufted like "springs", LuxCushion[™] provides better underfoot comfort for indoor environment.



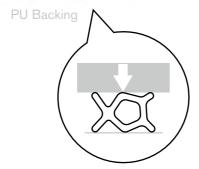
LUXCUSHION™











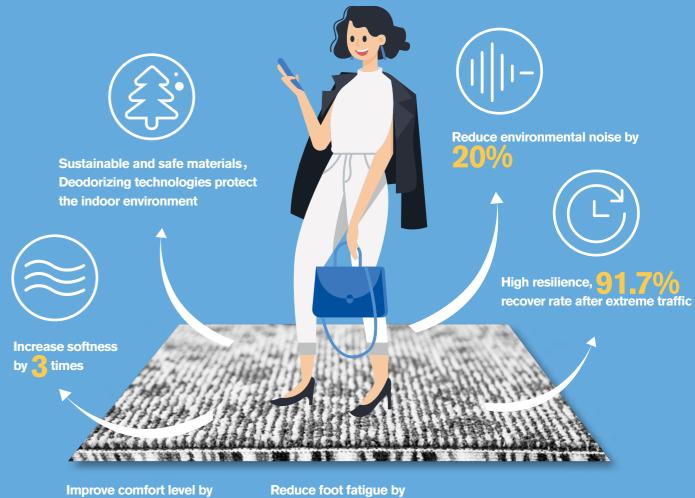


DESIGN FOR COMFORT



Deodorizing technologies protect the indoor environment

30.2%



Design For Comfort

Comfort is one of the most important aspects of architectural design, and also the reason to introduce LuxCushion[™]. The development of LuxCushion[™] is a revolutionary upgrade to carpet backing systems, taking performance and comfort experience to the next level.



19.8%

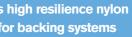


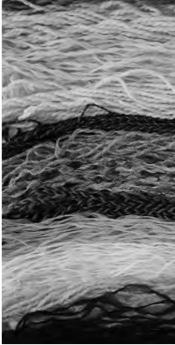
Improve **Underfoot Comfort**



LuxCushion[™] repurposes high resilience nylon as the major material for backing systems

The yarns are arranged spirally and vertically, showing outstanding strengths of support and resilience. It brings unprecedented underfoot experience in terms of improving softness and relieving foot fatigue. Also, more security is provided to reduce the risk of falls and injury. It can be applied







More Softness, Better Comfort

Tuntex Lab has performed load testing on different backings. Results show a positive correlation between the thickness of backings and softness. The backing of LuxCushion[™] is softer than felt backing and the softness increased by three times.

LUXCUSHION[™]





before

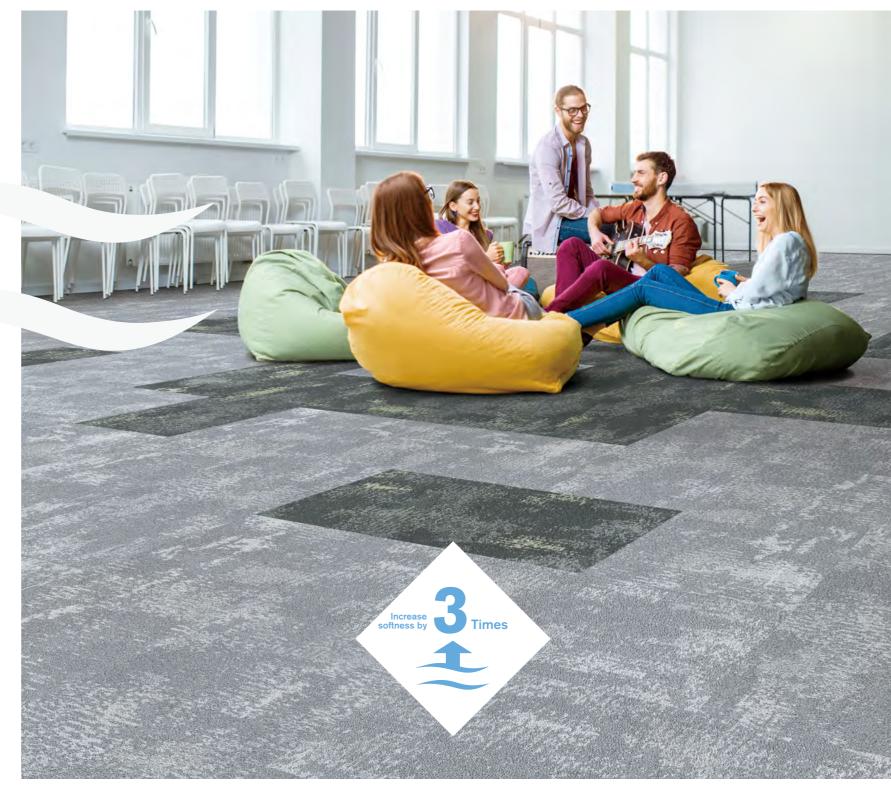




Felt Backing



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 $\ensuremath{^*\text{The}}$ research data in the article comes from Tuntex Lab. All rights reserved.

Significantly Reduces Foot Fatigue

More Than Comfort

With greatly elevated softness, LuxCushion[™] gives not only sound underfoot comfort but also better foot support. Both can effectively work with relieving the soreness and fatigue of muscles. Experiments prove that compared to typical backing systems, carpets with LuxCushion[™] improved comfort level by about 30.2% and reduced foot fatigue by about 19.8%.

LUXCUSHION[™]

Comfort level improved by approximately 30.2%



Foot fatigue reduced by approximately 19.8%



Superior Resilience to Ensure **Long-lasting Comfort**



A long-lasting comfort rather than a one-time disposal

Tuntex believes that improving the space comfort doesn't mean temporary feels, but a state of long-lasting experience. LuxCushion[™] is proven to have solid characteristics of term usage, lengthening the comfortable experience.



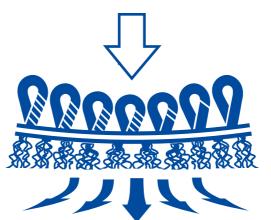


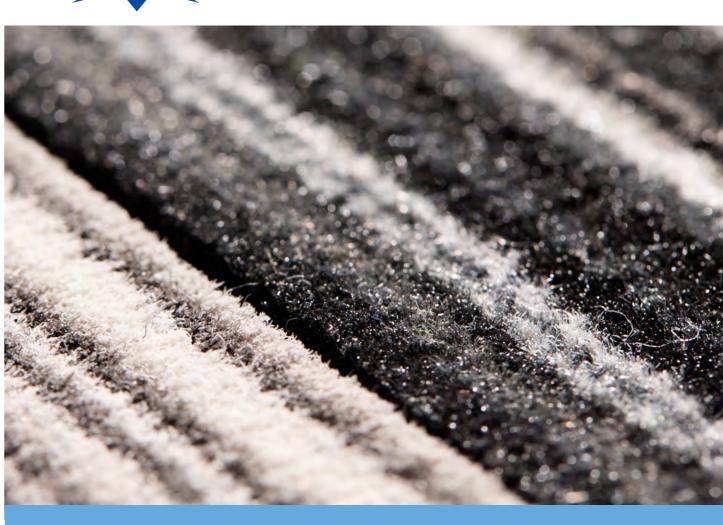
Better Resilience Than Typical Backing Systems

Tuntex Lab shows evidence that the recovery rate of LuxCushion[™] outclasses the performance of felt backing and PU backing after industry accepted Hexapod testing.



Felt Backing





Fiber glass is added to ensure excellent dimensional stability and durability



Yarn of LuxCushion[™] adopts the shape of spring. With a superior resilience performance, the carpet can recover quickly after usage.

*The research data in the article comes from Tuntex Lab. All rights reserved.

Better Acoustic Comfort



A comfortable space delivers joy and balance between physical and mental conditions

Noise plays a vital role in affecting indoor comfort, and how to reduce noise through interior design and architecture has always been the vision of Tuntex. The innovative sandwich design of LuxCushion[™] utilizes two layers of nylon fiber, achieving better noise reduction effect and acoustic comfort.



Impact Sound Insulation ΔLw

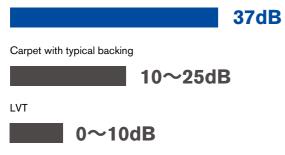


More Than Comfort

Impact sound insulation refers to the ability to prevent the transmission of impact noise, such as footsteps, dragging furniture and falling objects between floors or rooms.

LuxCushion[™] tests a reduction of transmitted impact noise by 37dB according to ISO 10140, which is 5 times better than LVT, and an increase of 50% compared to typical backing.

LUXCUSHION[™] Carpet with LuxCushion[™]







Note: Impact sound insulation of other flooring coverings is a reference value and will vary depending on products.



. The data is the laboratory test result, and it is subject to different according to the change of experimental environment

- .



Sound Absorption QW



Sound absorption indicates the capacity to absorb sound energy in the air. Absorption can lessen other unpleasant background noise within the room, for example echo. According to EN ISO 354,LuxCushion™ tests an impressive sound absorption coefficient of 0.40.

Hard Floor	0~0.05 Hard Flooring (Wood, Concrete, etc)		0.15~0.2 Carpet with type	
0.00	0.10		0.20	
	LVT 0~().10		

.20

bical backing







Safe Materials and Special **Treatments Improve Indoor Comfort**

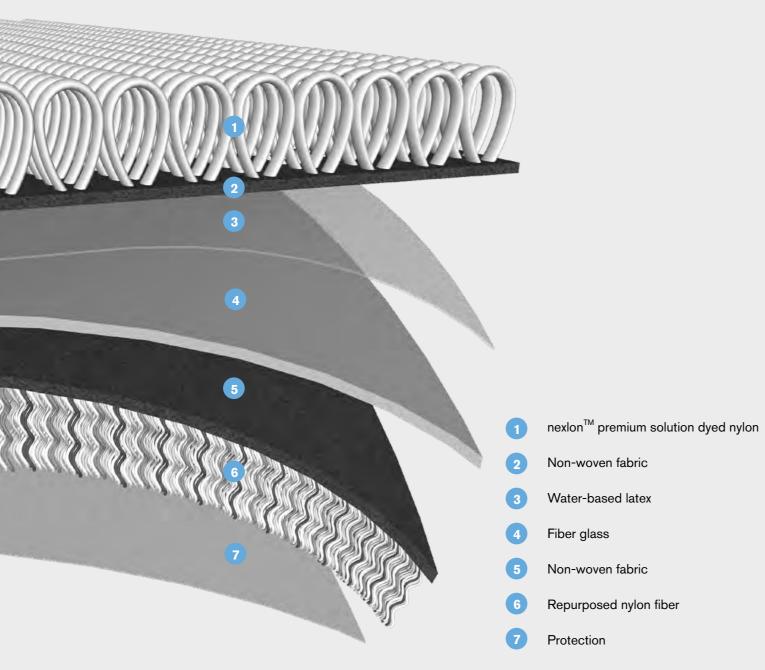


People and indoor space interact with each other

Indoor pollutants contribute to health risks. LuxCushion[™] functions to restrain the emergence and growth of these health











Mininum TVOC

LuxCushion[™]'s simplified structure requires less adhesive, and thus fewer chemical emissions of TVOC generated during manufacturing. LuxCushion[™] has passed the TVOC testing in many countries, providing safety and reliability.

Plasticizer Free

No plasticizer has been added during the manufacture. It leads LuxCushion[™] to be a safer and more environmentally-friendly choice.

Reduces Indoor Odor

EcoFresh[™] technologies use a mixture of organic and inorganic ingredients that do not contain any harmful chemical substances. Embedded in the carpet, it benefits the removal of indoor odors. The lasting deodorant effect helps refresh the indoor air.



ECOFRESH[™]





Anti-microbial

Tuntex's unique anti-bacterial and antimildew treatments can effectively reduce health threats and concerns caused by bacteria, microorganisms, and mold. It can inhibit the growth of staphylococcus and aspergillus niger to safeguard your health and living environment.



MICROSHIELD[™]

DESIGN FOR FUTURE







Design for Future

The ideal design is not only about today, but also the future. LuxCushion[™] applies the novel pending technology to education space, aiming to create a more comfortable and safer environment for the growth of the next generations.The environmental-friendly concept embedded in the design of LuxCushion[™] is more about the wellbeing of mankind. In light of energy-saving, emission reduction, extending the life cycle of carpets, recycling, and reusing, carpet can be more than itself.





Louder voice, green space for a more sustainable future

Ideal Growing Space For Next Generation



Space environment affects physical state. Similarly, the design of education space acts critically on the growth of children. LuxCushion[™] accommodates the various demand for childhood education and can provide a better growth environment for the younger gen<u>erations.</u>



Enjoy the Silence

Reduced noise to achieve a high level of concentration

Health and Vitality

Improved softness to provide better support and relieve fatigue

Extra Care with Credibility

Extra provided cushion to reduce risks caused by accidental falls



Safety and Reliability

Controlled pollution to make indoor air and the environment safer

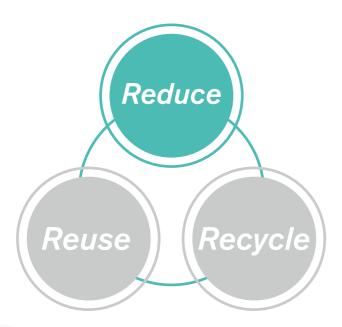


Seeking a Better Tomorrow



Tuntex has always been seeking green manufacturing through continuous innovations. The concept of sustainable development also runs through the research and development of LuxCushion[™].







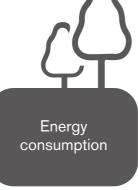


Melt

By shortening manufacturing process and logistics distances, it helps to achieve an overall reduction of **water resources**, energy, and carbon emissions.

Traditional backing systems require a tedious flow path from raw plastic to finished products, which consumes a great deal of water resources and energy, and generates plenty of carbon emissions.



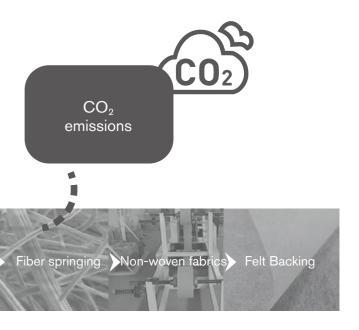


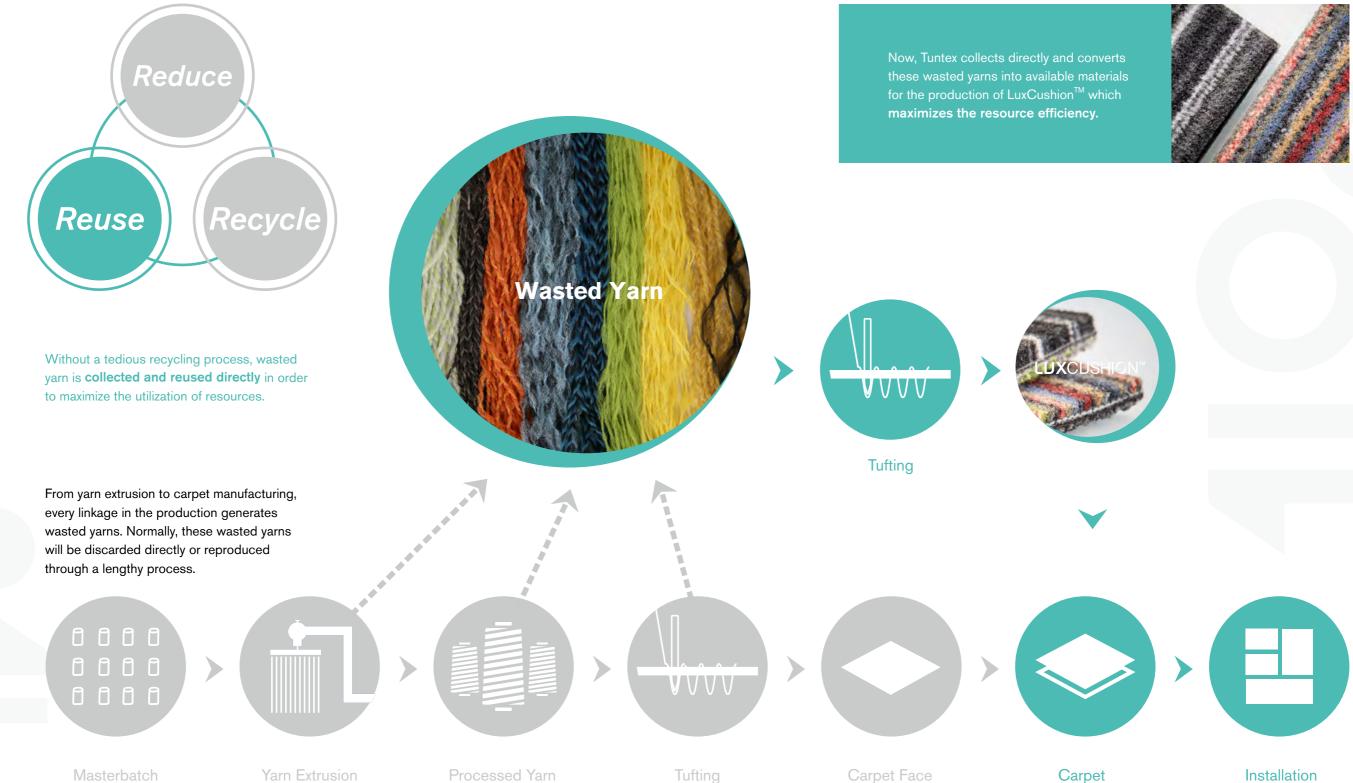
Manufacturing process of typical backing systems

Recycle plastic

Smash

LuxCushion[™] repurposes high resilience nylon that is a byproduct from yarn wasted during the carpet manufacturing process and directly reproduces into the backing in the original factory. Energy, resources and carbon emissions that were required in the past have been decreased to protect the environment.



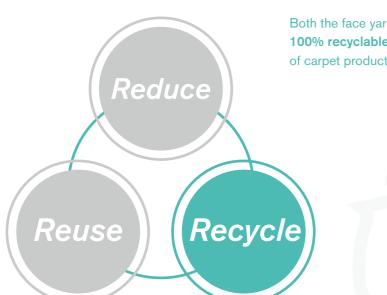




Carpet

Installation





Both the face yarn and the backing are 100% recyclable to create the green cycle of carpet production.



LUXCUSHION[™]

LUXCUSHION[™]

Education

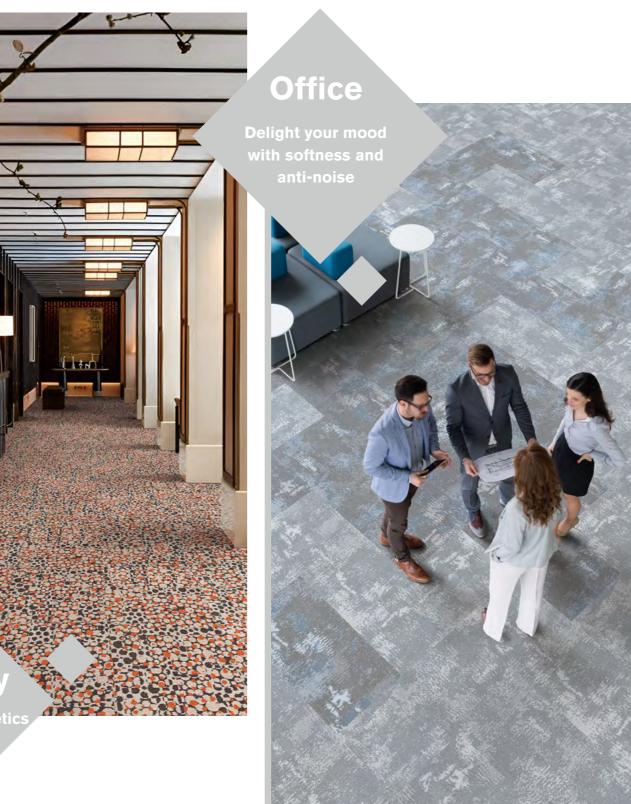
Secure the growth with eco-friendly materials

Better Flooring Solution For Indoor Space

Health and Wellness

t offers health and comfort, creating a safe and livable environment







Hospitality

47









Experience Comfort 2 Ways



At the intersection of innovation and versatility, we bring you two LuxCushion[™] backing types designed to meet the diverse needs of modern spaces.

Whether you prioritize the luxurious comfort of LuxCushion[™] Cloud or the lightweight versatility of LuxCushion[™] Air, these products empower you to create spaces that fulfill your flooring needs—without compromise.

More Than Comfort

LUXCUSHION[™] Cloud



Cloud-like Plush

LuxCushion[™] Cloud embodies the pinnacle of comfort and design in modular tile carpets. It offers premium cushioning, enhanced durability, and a luxurious underfoot feel, ideal for high-end commercial spaces where elegance meets functionality.

50

Cloud like Plush

Step Into Luxury

LuxCushion[™] Cloud products can be up to 14.5mm thick, bringing a new sense of comfort and creating a relaxing indoor experience.







Well-being Oriented

The flexibility of LuxCushion[™] Cloud is far greater than traditional PVC backing, which minimizes knee stress and makes it easier for users to get tired from standing or sitting for long periods of time.



like Ease



Air-like Ease

LuxCushion[™] Air is designed for dynamic environments where adaptability, ease of installation, lightweight construction, and comfort are key considerations.





LUXCUSHION™ Air



Lightweight Comfort

Providing ease of movement, installation, and reconfiguration, LuxCushion[™] Air is perfect for agile workspaces, co-working offices, and environments that prioritize flexibility without compromising comfort.







Lightweight Comfort

With an inspiring collection of designs ranging from Biophilic influences to linear forms, LuxCushion™ Air is able to accommodate both design and functionality needs.

TUNTEX[™]

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