

# TPE INNOVATE

## SLEEP GRID

REDEFINE  
FURNITURE  
MATERIALS





**TPE**  
SLEEP GRID

[purple-mic.com](https://purple-mic.com)

# TPE SLEEP GRID

## Zhejiang Lingya New Material Technology Co., Ltd.

Zhejiang Lingya New Material Technology Co., Ltd. is one of the first companies in China that has successfully developed the whole industrial chain from TPE material development, product design, mold process, and mass production. We specialize in providing professional and efficient personalized customization services to furniture brands.



The company has set up a technical laboratory, led by a Doctor in materials science from the University of Delaware, a professor from the Department of Automation of Southwest Jiaotong University, and a mold designer with 10+ years of experience, to continuously optimize the formulation of TPE zero-pressure super-elastic polymer materials, continually improve the scale of production capacity, and maximize the ability to provide personalized services. We have obtained many material patents, product patents, utility model patents, and appearance patents. The products have passed SGS, ROHS, and EU REACH environmental certifications. The company adheres to the "pursuit of innovation and mutual benefit and win-win" business philosophy. Adhering to the direction of ergonomics, health, and environmental protection, we have promoted material innovation in the furniture industry. We will work with our customers to create more top products and quickly meet the era of consumer upgrades brought by new materials. Make more consumers enjoy the new experience brought by Lingya products.



## 500m<sup>2</sup> laboratory

CUSTOMIZE EXCLUSIVE FORMULAS  
DESIGN EXCLUSIVE MODELS

a Doctor in materials science from  
the University of Delaware

a professor from the Department of  
Automation of Southwest Jiaotong  
University

and a mold designer with 10+ years  
of experience

Cutting-edge technology in TPE  
Research and Development  
Promotion and Application



# SCALABLE PRODUCTION CAPACITY

Mature industrial chain  
Capacity replication fast

Raw materials of 12 tons/day  
Sheet of 5000 / day

Sci. & Tech  
INNOVATION ×

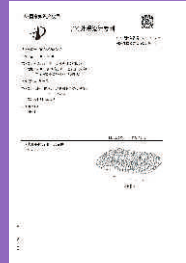
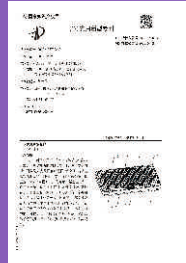
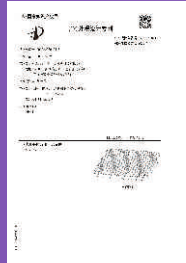
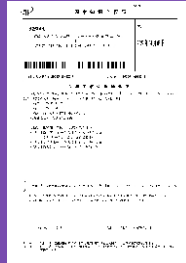
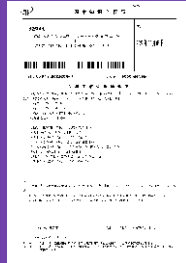
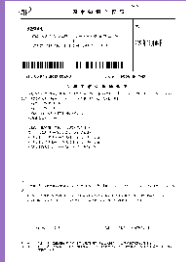
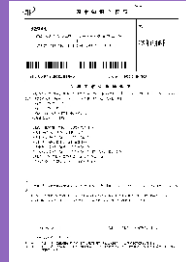
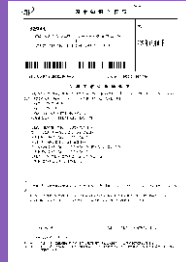
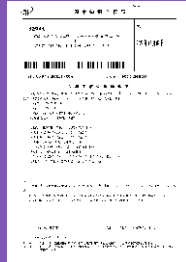
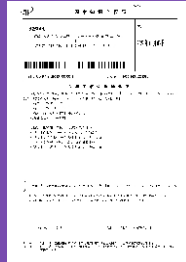
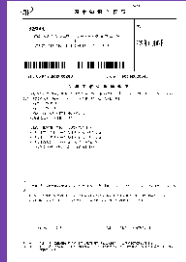
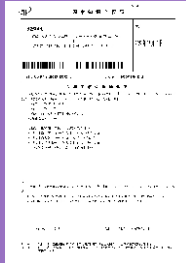
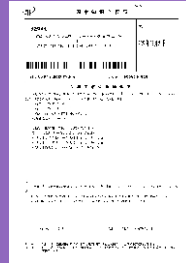
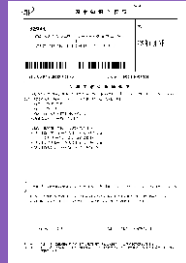
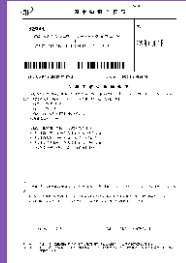
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# COMPANY'S PATENT

## TPE INNOVATE

Casting the high-quality goods  
The quality of the world



# MANUAL INTRODUCTION



About  
TPE Materials

P/01-08



Flexible customization  
in all categories

P/09-16



Customized  
Products

P/17-35

# 01

## Materials Introduction

TPE material

It's environmental protection, non-toxic  
comfortable to the touch, beautiful appearance

Make the product more creative

Therefore, it is also a more humane

High-grade new synthetic material

It is also the world's standard  
environmental protection material

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Technology Deep Sleep Pioneer

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## Thermoplastic elastomers New polymer materials

TPE was first used in the U.S. aerospace industry for its high resilience, high adhesion, temperature resistance, fatigue resistance, and softness, and it has since been used in the U.S. furniture industry. It is molded at high temperatures into a hollow grid of elastomeric products of different sizes, specifications, and colors.

TPE materials can completely replace solid core fillings or combined fillings in furniture categories such as mattresses, sofas, pillows, and seat cushions

Not only does it completely solve the pain points of airlessness and easy collapse, but it can also be washed directly with water, making it truly clean and resistant.

The material has been widely used in advanced countries such as Europe, America, Japan, and Korea.

The material is also used in many other fields such as medical and infant products.

## Original granular raw material An easy response to scale-up capacity

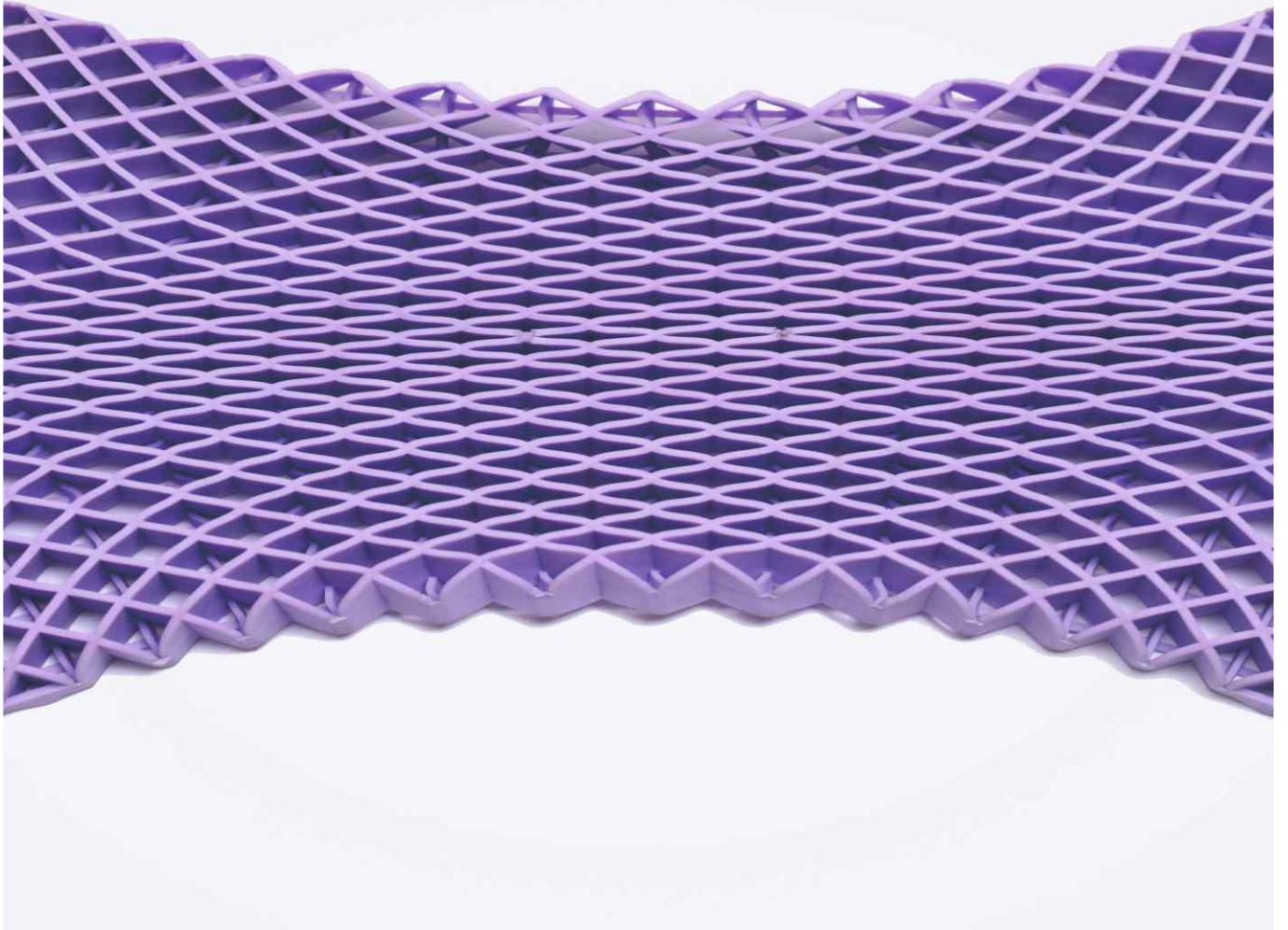
Due to the high plasticity and application of this centrifugal material, it is possible to use it in a wireless environment.

Our team set up a technical lab two years ago to create a material formulation more suitable for the furniture industry.

And quickly obtained the SGS, ROHS and EU REACH environmental protection certifications

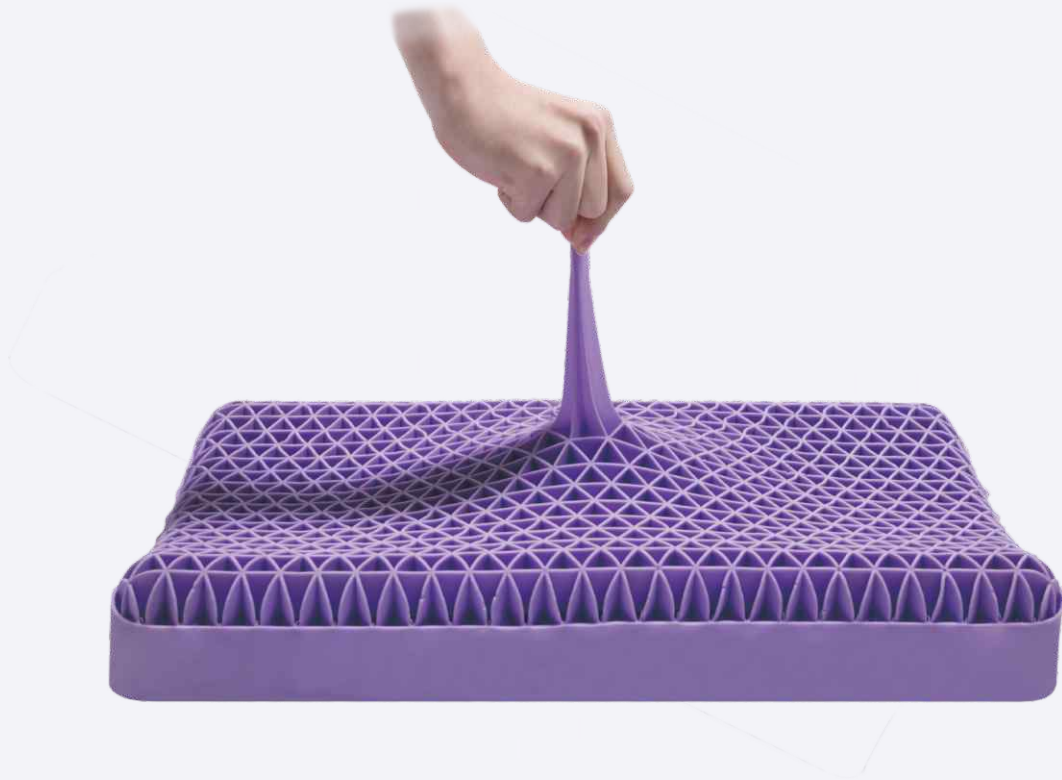
Pellet raw materials break through the industry's storage barriers and are a key technology for rapid response to long-term, large-scale production.





## Super stretching capacity Up to 10 times

Science and technology of deep sleep, the creation



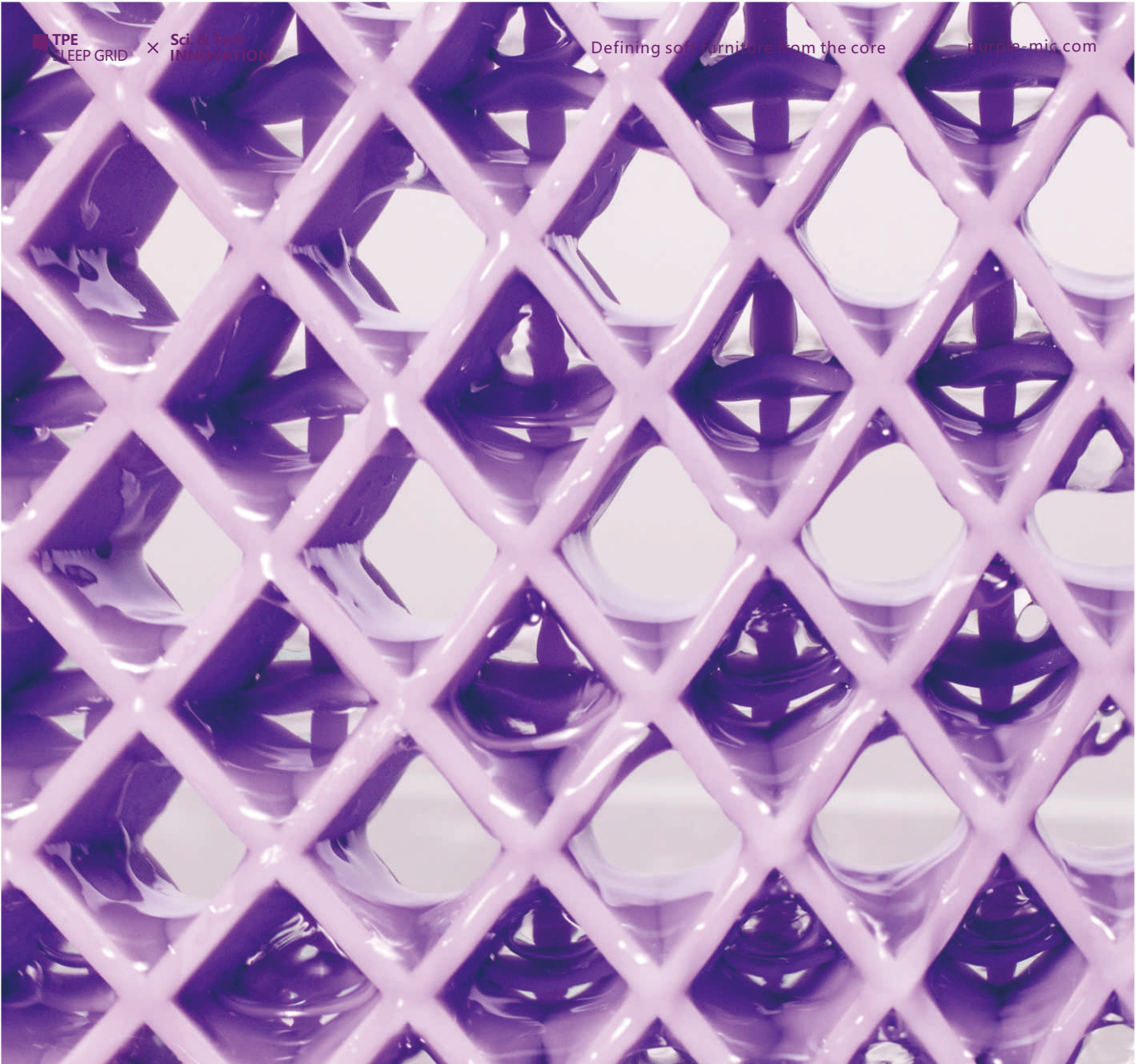
Long-lasting resilience  
Up to 10+ years



Scientific partitioning softer  
No pressure, and high elasticity



## Neck relief and comfort material Comfortable Skin-friendly



## TPE black technology material Breathe freely Breakthrough breathability problem



## Self-stretching hollow grid Washable Anti-mite

# 02

## Flexible customization in all categories

Our TPE material technology company  
based on its own superb research and  
development strength

The ability to implement solutions for  
the whole industry chain of TPE materials

Focused on providing furniture brands  
with professional and efficient personalized  
customization services to  
furniture brands

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# SLEEP BED

- 1. TPE high elasticity air layer mattress sheet product display diagram
- 2. TPE high elasticity air pillow flat pillow model revealed product diagram



# SOFA TPE

1.TPE high elasticity air layer sofa cushion sheet product display diagram



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# Pillow

TPE high elasticity air pillow flat pillow models to reveal the product diagram



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# Yoga mat

1.TPE high elasticity air mat product revealed diagram



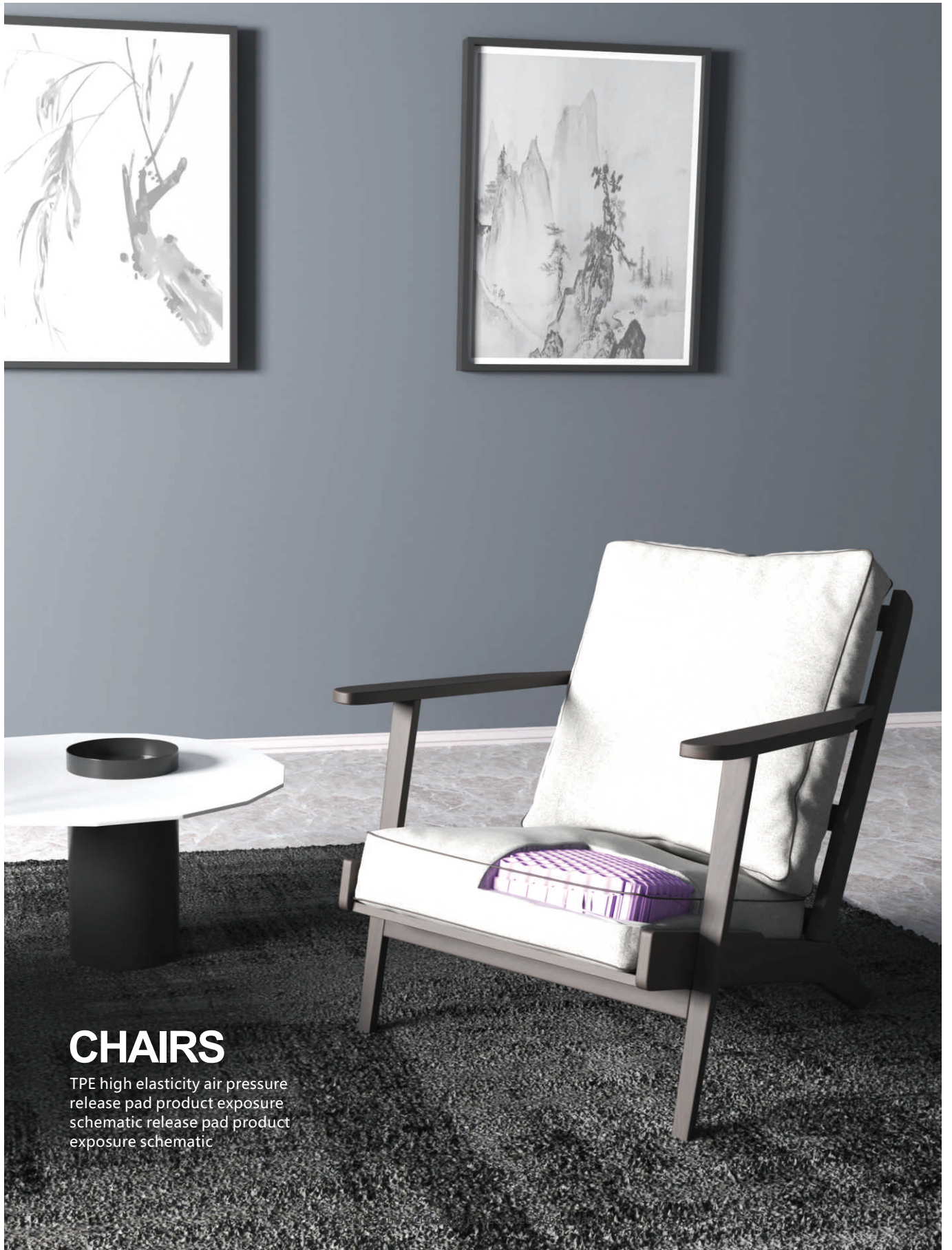
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# CHAIRS

TPE high elasticity air pressure release pad  
product exposure schematic



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# CHAIRS

TPE high elasticity air pressure  
release pad product exposure  
schematic release pad product  
exposure schematic

# PET PAD

TPE high elasticity air pressure release pad  
product exposure schematic



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03

Customized  
Products

Note: Regular color: purple  
Other colors can be customized  
Implementation standard :  
GB/T22796 - 2021

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## TPE High Elastic Butterfly-shaped Pillow



Model: (Small) ZDX- 1  
Measurements(cm): 50x30x4/6  
Weight(kg) : Approx.1.4

Model: (Medium) ZDX-2  
Measurements(cm): 55x38x7/9  
Weight(kg): Approx.3.3

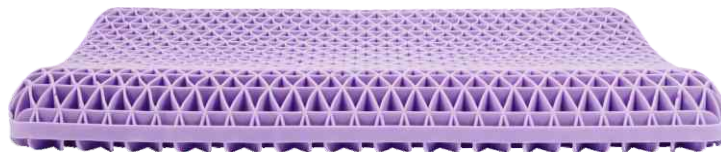
Model: (Large) ZDX- 3  
Measurements(cm): 62x38x8/ 10  
Weight(kg): Approx.3.7

## TPE Triangle High and Low Pillow

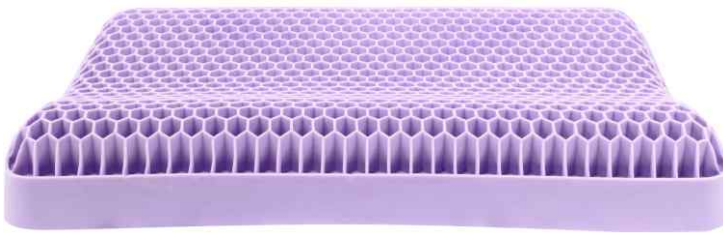
Model: (Small) ZSJGD- 1  
Measurements(cm): 50x30x3/ 5  
Weight(kg) : Approx.1

Model: (Medium) ZSJGD-2  
Measurements(cm): 52x35x8/ 10  
Weight(kg) : Approx.3

Model: (Large) ZDX- 3  
Measurements(cm): 60x40x4/6  
Weight(kg): Approx.3.3



## TPE High Honeycomb High and Low Pillow

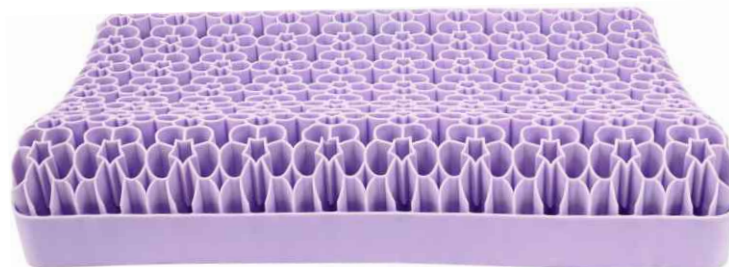


Model: ZFWGD-2

Measurements(cm): 52x35x8/ 10

Weight(kg): Approx.2.7

## TPE High-elastic Sakura High and Low Pillow

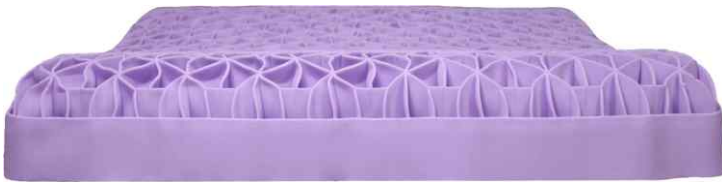


Model: ZYHGD-2

Measurements(cm): 52x35x8/ 10

Weight(kg) : Approx.3

## TPE Abnormal Triangle High and Low Pillow

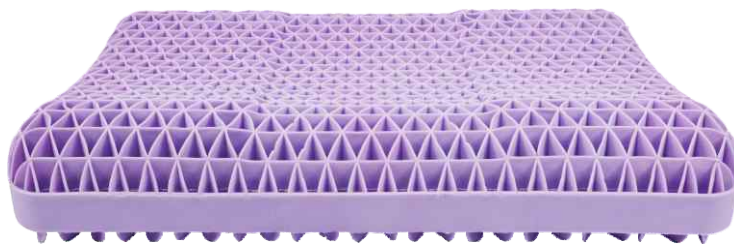


Model: ZYSSJGD-2

Measurements(cm): 52x35x8/ 10

Weight(kg) : Approx.2.8

## TPE Triangle Partition High and Low Pillow

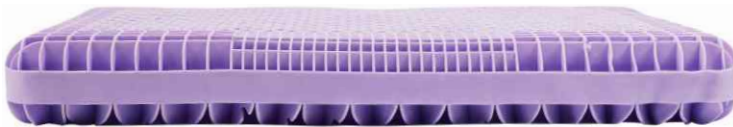


Model: ZSJFQGD- 3

Measurements(cm) : 60x40x8/ 10

Weight(kg): Approx.3 .8

## TPE Triangle Flat Pillow

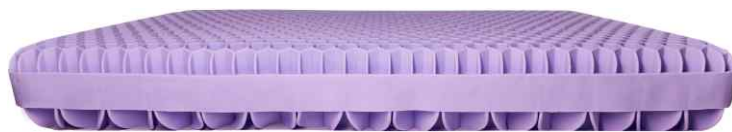


Model: ZSJD- 3

Measurements(cm): 60x40x8

Weight(kg): Approx.4

## TPE Triangle Partition High and Low Pillow

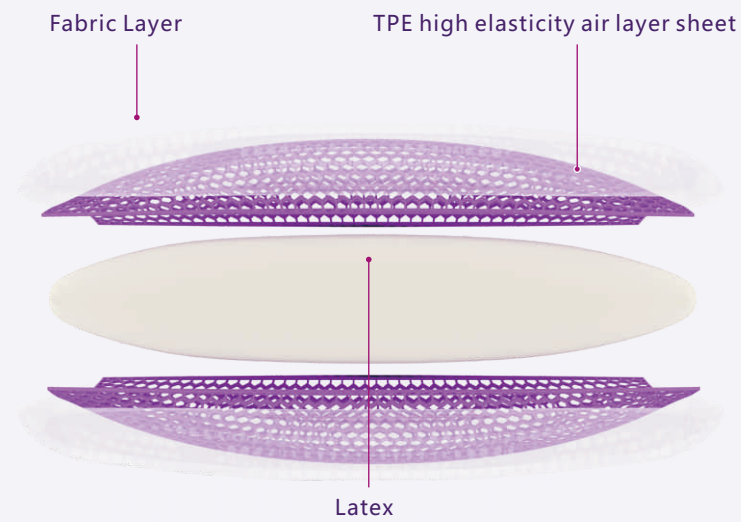
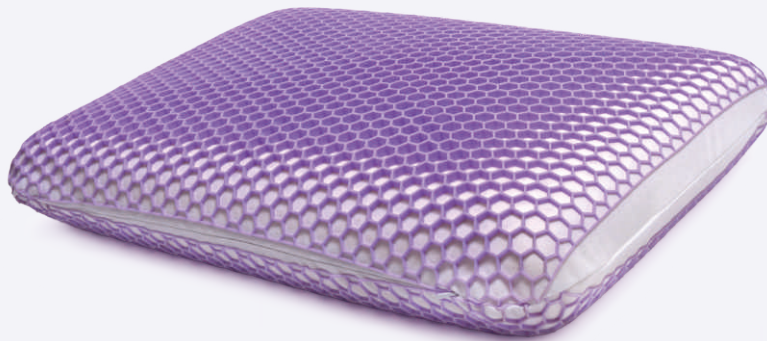


Model: ZFWDP- 3

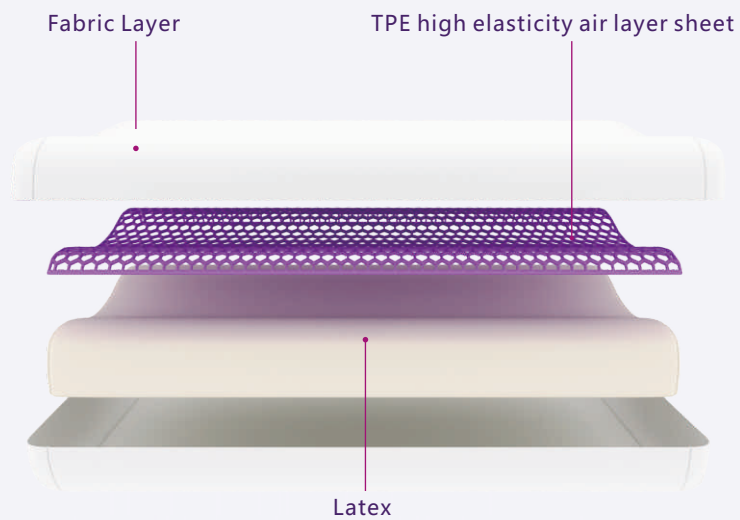
Measurements(cm) : 60x40x8

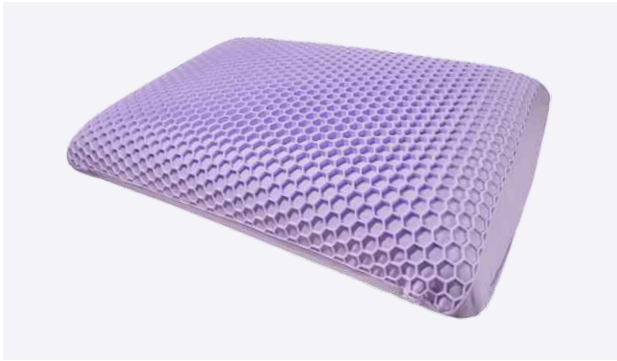
Weight(kg): Approx.3.8

## TPE Memory Foam Bread Pillow



## TPE Memory Foad High and Low Pillow





TPE Bread Combination With Air Pillow

Number: Custom 01 Specifications: Customizable

Color:



TPE Bread Combination With Air Pillow

Number: Custom 02 Specifications: Customizable

Color:



TPE Bread Combination With Air Pillow

Number: Custom 03 Specifications: Customizable

Color:



TPE Bread Combination With Air Pillow

Number: Custom 04 Specifications: Customizable

Color:



TPE Bread Combination With Air Pillow

Number: Custom 05 Specifications: Customizable

Color:



TPE Bread Combination With Air Pillow

Number: Custom 06 Specifications: Customizable

Color:



TPE Bread Combination With Air Pillow

Number: Custom 01 Specifications: Customizable

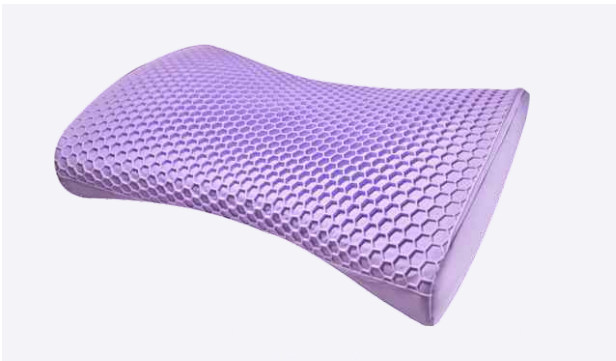
Color:



TPE Bread Combination With Air Pillow

Number: Custom 02 Specifications: Customizable

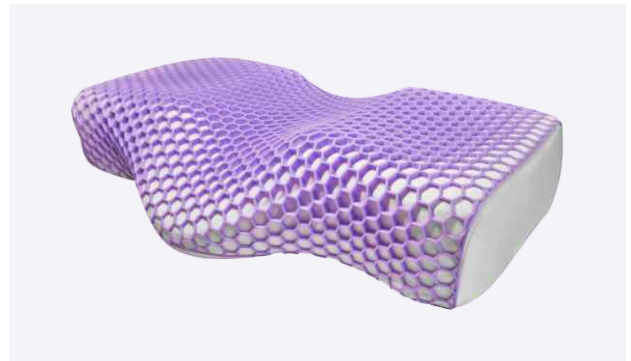
Color:



TPE Bread Combination With Air Pillow

Number: Custom 03 Specifications: Customizable

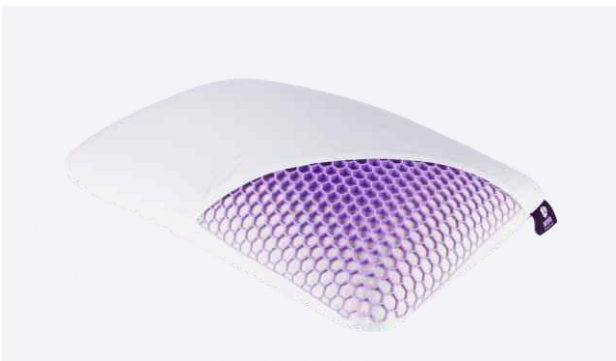
Color:



TPE Bread Combination With Air Pillow

Number: Custom 04 Specifications: Customizable

Color:



TPE Bread Combination With Air Pillow

Number: Custom 05 Specifications: Customizable

Color:

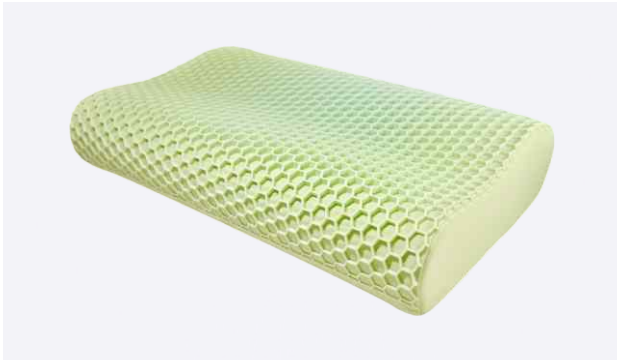


TPE Bread Combination With Air Pillow

Number: Custom 06 Specifications: Customizable

Color:

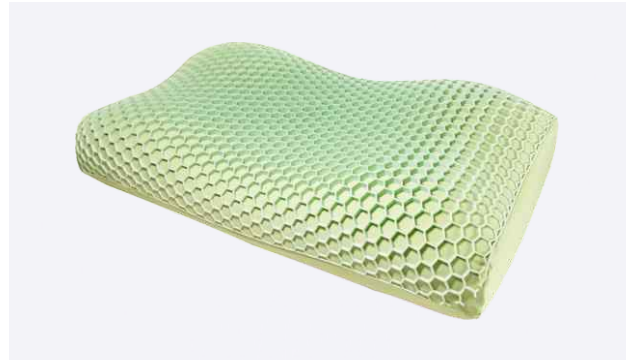




TPE Bread Combination With Air Pillow

Number: Custom 01 Specifications: Customizable

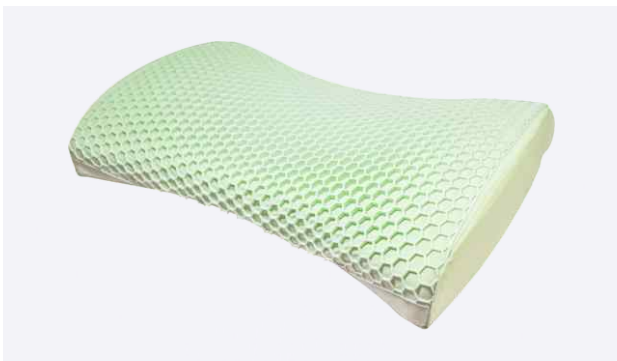
Color:



TPE Bread Combination With Air Pillow

Number: Custom 02 Specifications: Customizable

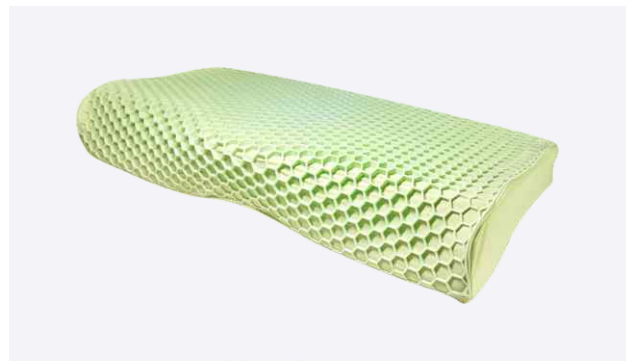
Color:



TPE Bread Combination With Air Pillow

Number: Custom 03 Specifications: Customizable

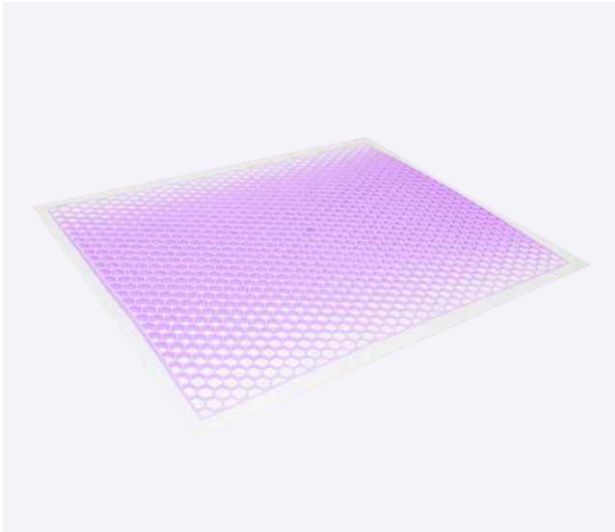
Color:



TPE Bread Combination With Air Pillow

Number: Custom 04 Specifications: Customizable

Color:



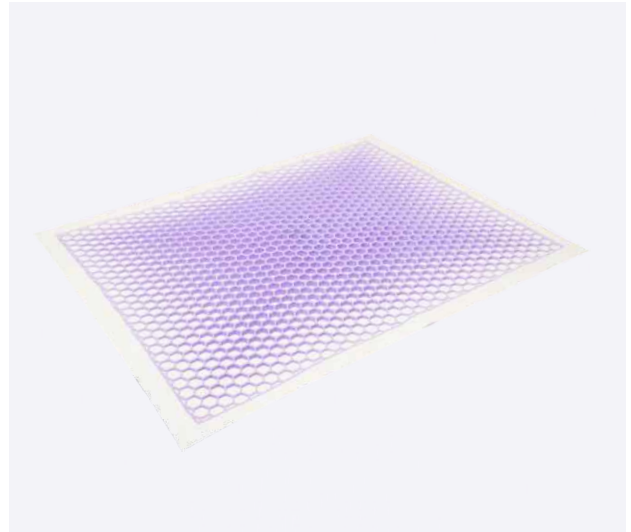
Honeycomb Height Pillow Sheet TPE Air Pillow

Model: PFWGDP

Measurements : 60\*45\*0.2/ 1.2 ( cm)

Weight: 0.5Kg

Color:



Cellular Bread Pillow Sheet TPE Air Pillow

Model: PFWMBP

Measurements : 60\*45\*0.2/1.2 (cm)

Weight: 0.4Kg

Color:

PFWMBP (Large)

70\*45\*0.2/ 1.2 ( cm)

0.45Kg



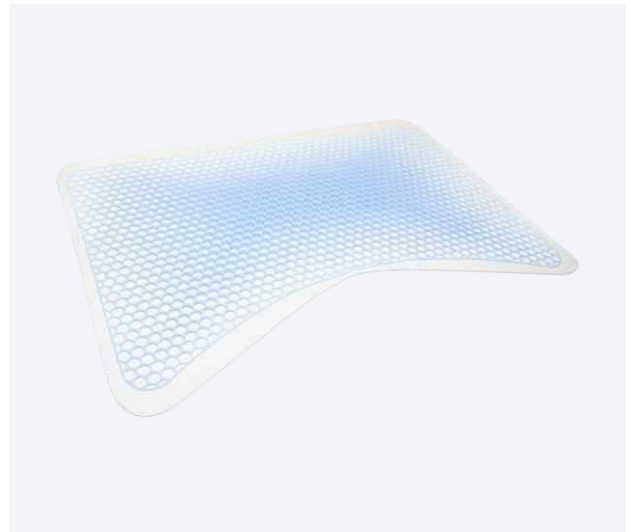
Honeycomb Of Eight Sheet TPE Air Pillow

Model: PQW

Measurements : 65\* 35\*0.2/ 1.2 ( cm)

Weight: 0.35Kg

Color:



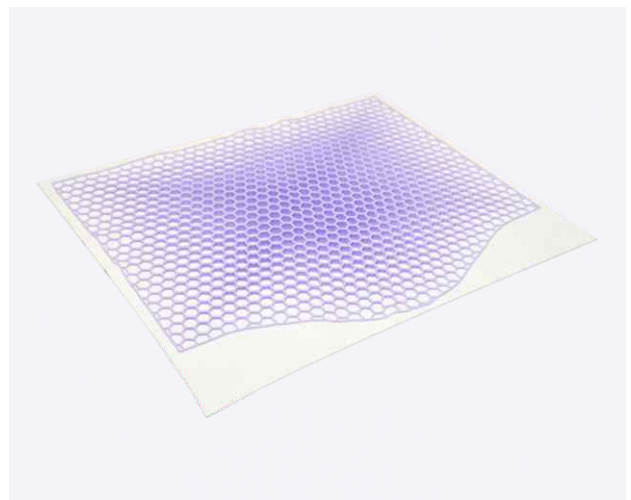
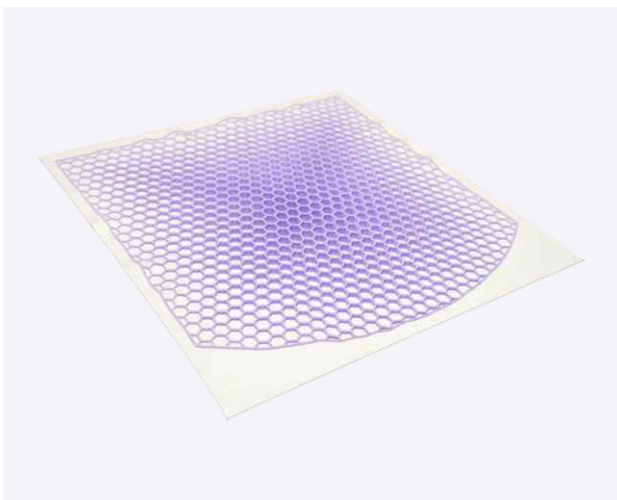
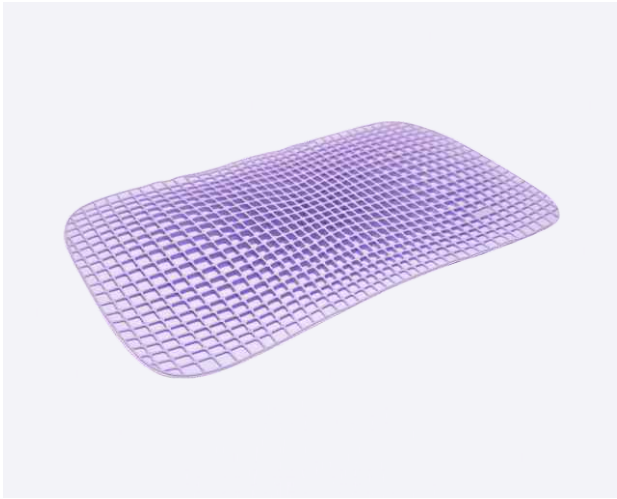
Crescent Sheet TPE Air Pillow

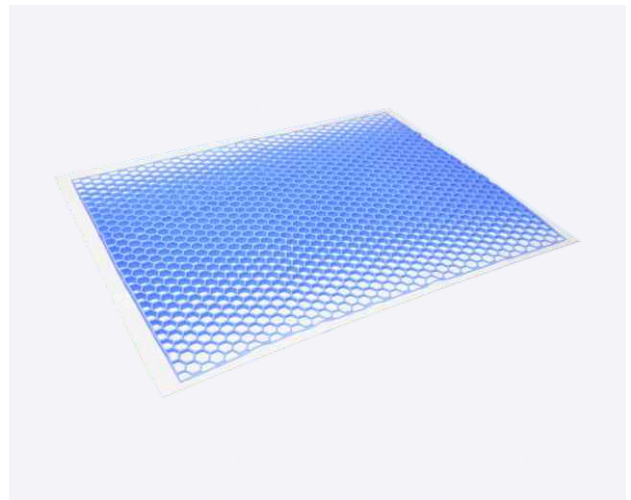
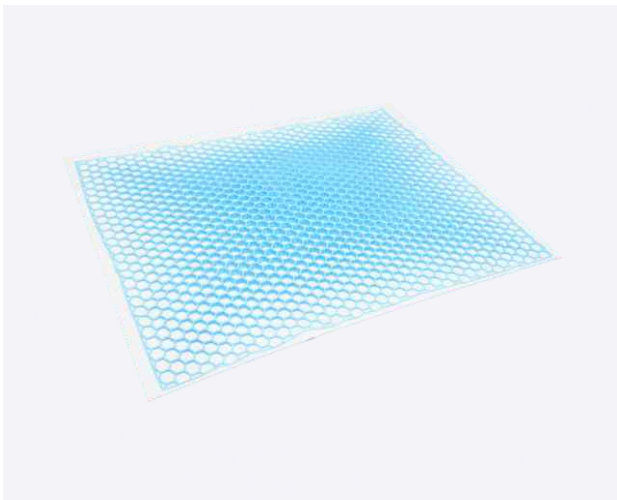
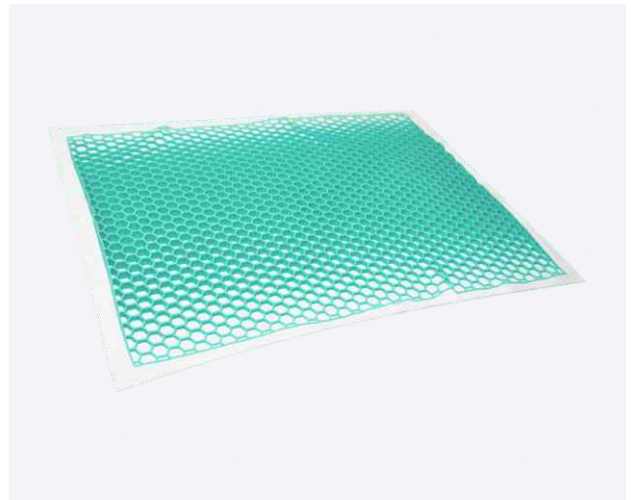
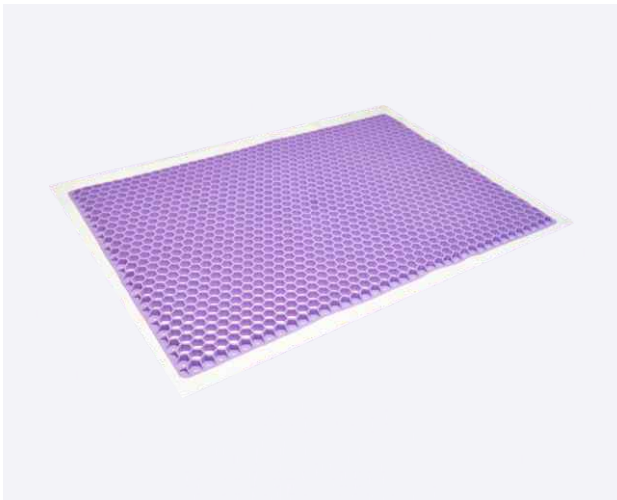
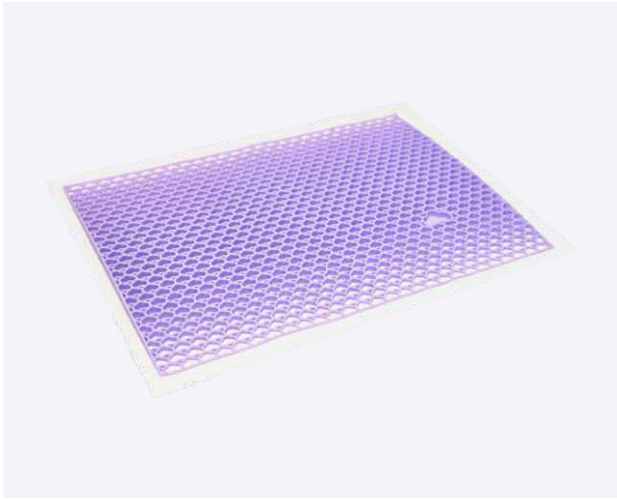
Model: PYYP

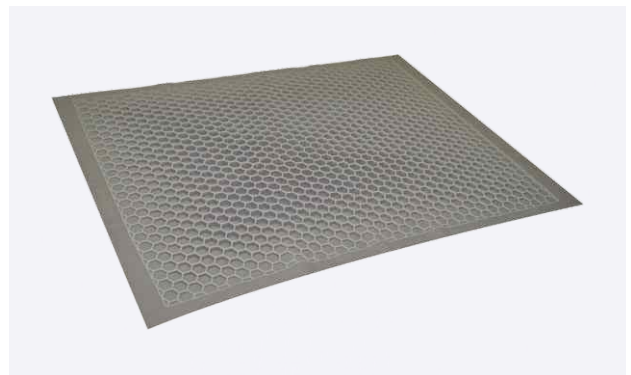
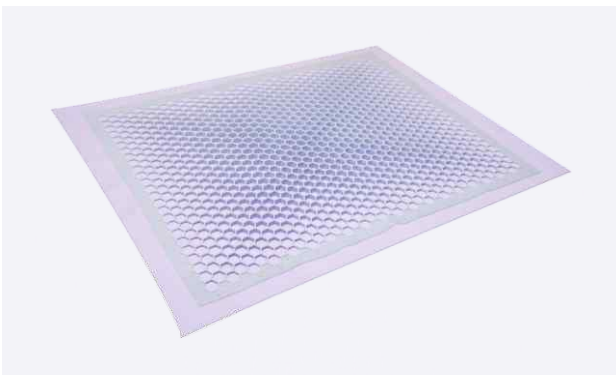
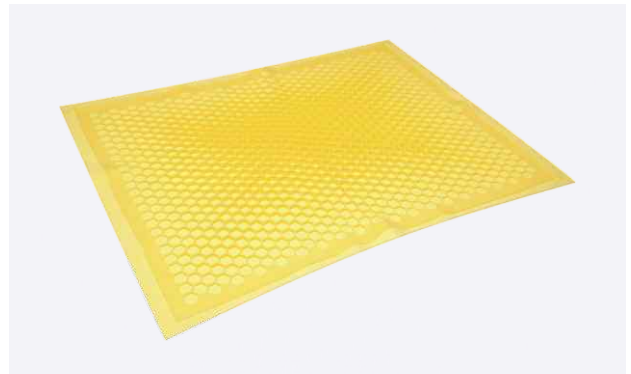
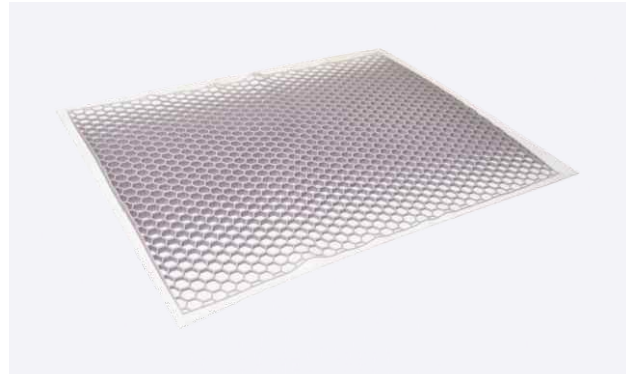
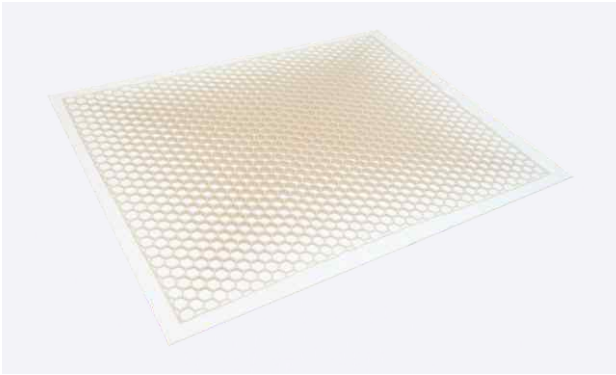
Measurements : 70\*45\*0.2/ 1.2 ( cm)

Weight: 0.4Kg

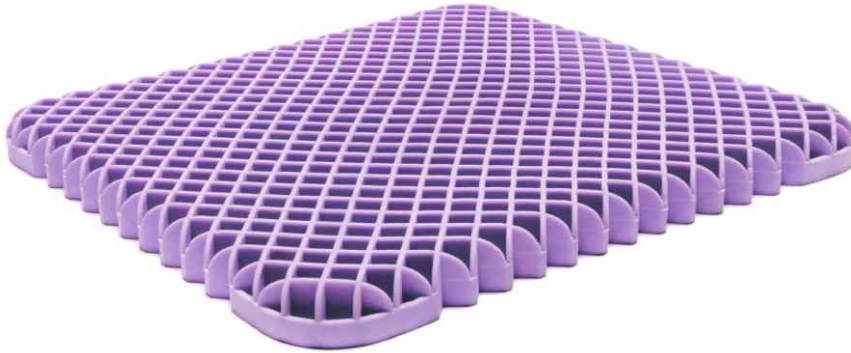
Color:







## Diamond-shaped Seat Cushion



Model: DLX-1

Measurements(cm) : 41x38x3

Weight(kg): Approx.1.6

## TPE Field Grid Seat Cushion



Model: DTZGFZ-1

Measurements(cm) : 42x36x3

Weight(kg): Approx.1.5



## TPE Honeycomb Seat Cushion

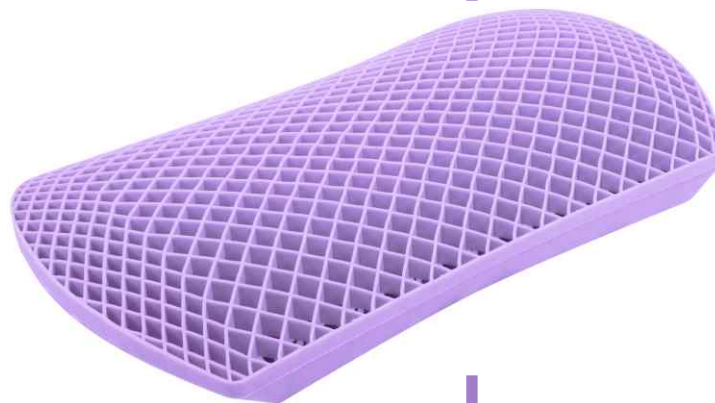


Model: DFW- 1(Small)  
Measurements(cm) : 41x38x3  
Weight(kg) : Approx.1.05

Model: DFWFZ- 1(Small)  
Measurements(cm) : 41x38x3  
Weight(kg) : Approx.1.2

Model: DFWFZ- 3(Large)  
Measurements(cm) : 47x45x3.5  
Weight(kg) : Approx.1.5

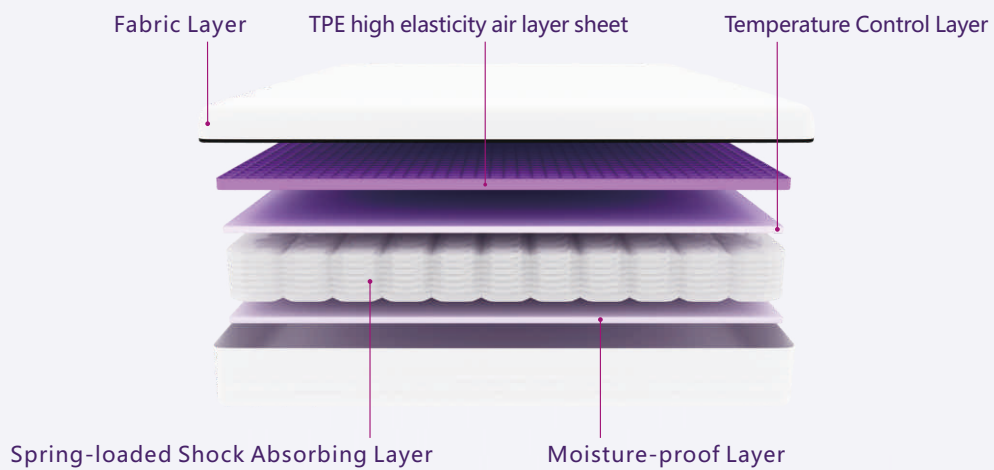
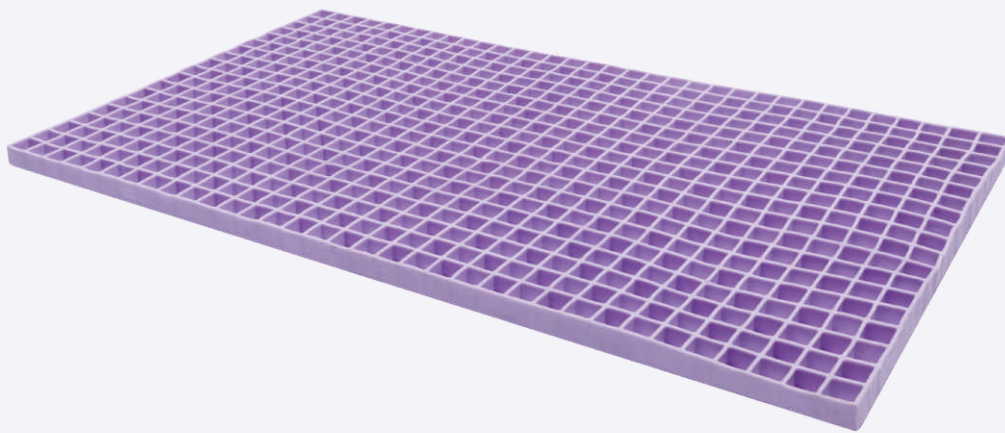
## Diamond-shaped Back Cushion



Model: KLX  
Measurements(cm) : 42x24x6  
Weight(kg): Approx.1.1

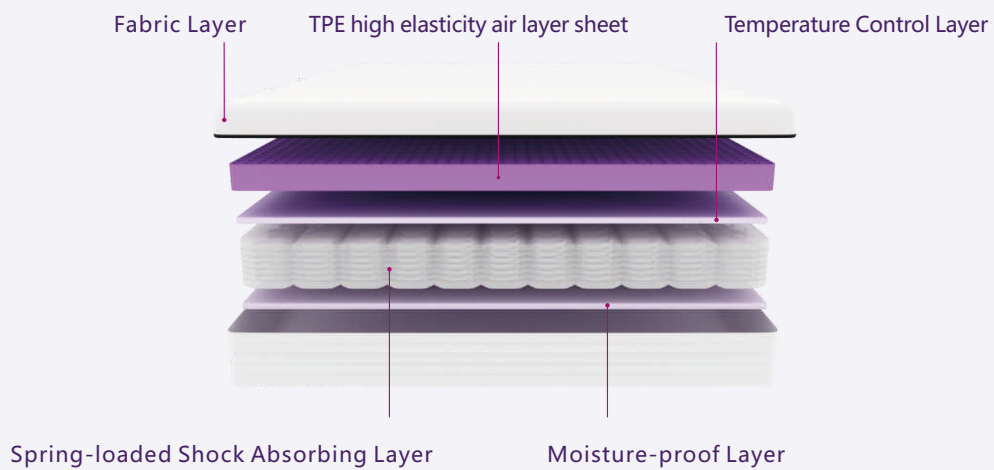
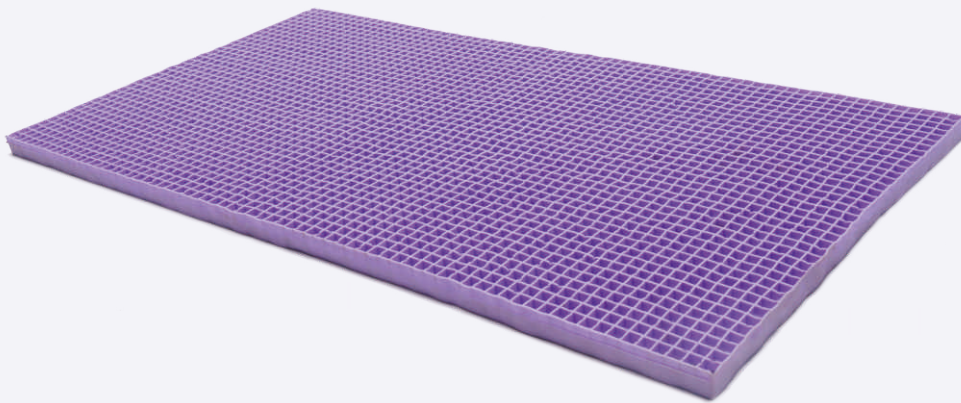


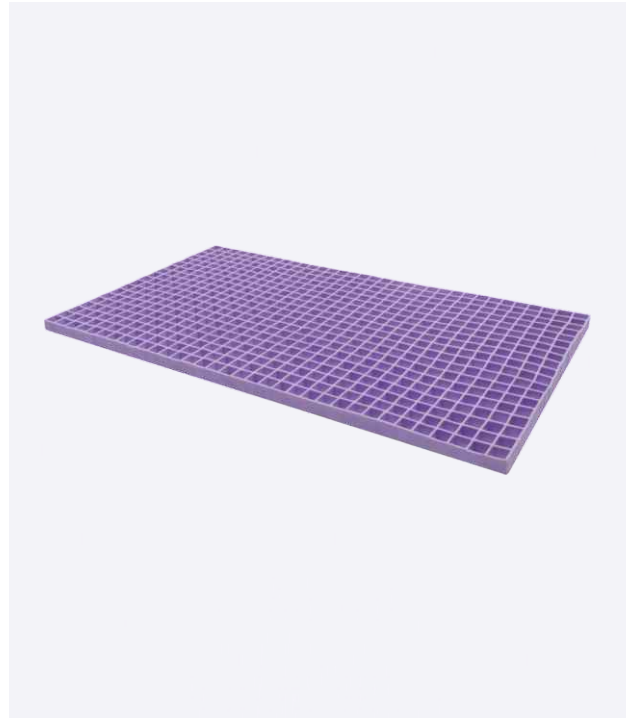
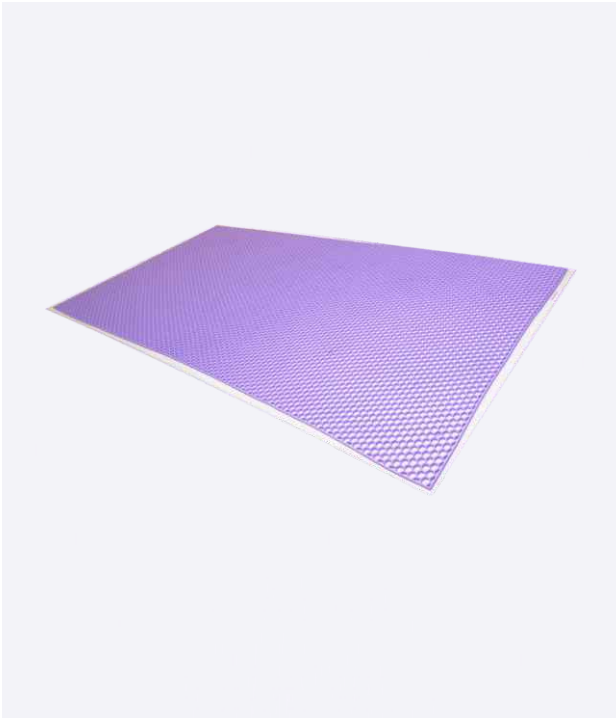
## TPE 25mm Square Grid Mattress Gasket





## TPE 10mm Square Grid Mattress Gasket





# Features and benefits of non-pressure pillows

Pick a pillow that fits your neck perfectly and supports the physiological curvature of your cervical spine. Release the pressure on your head, for life to reduce stress, sleep help. Take care of your sleep safety, clean and hygienic without mite bacteria. Refreshing and breathable, enjoy a comfortable sleep space.



**TPE PILLOW  
FEATURES  
ADVANTAGES**



[purple-mic.com](http://purple-mic.com)

Defining soft furniture from the core

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