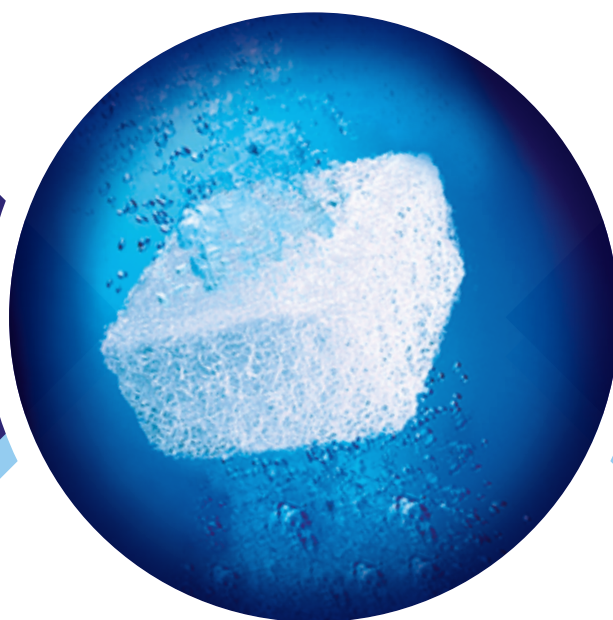


Finally...

**BREATHAIR®**



Air permeable  
cushioning material

*Distributed by*

**ITALVIPLA**

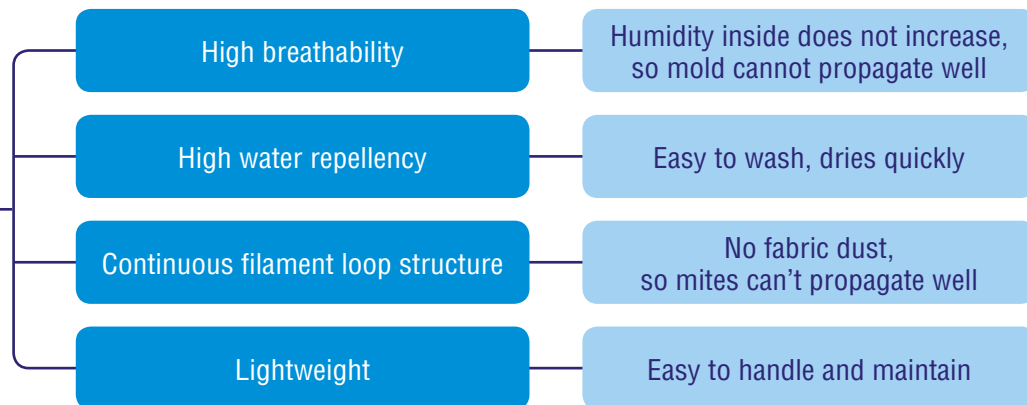
high quality performance

# BREATHAIR<sup>®</sup>

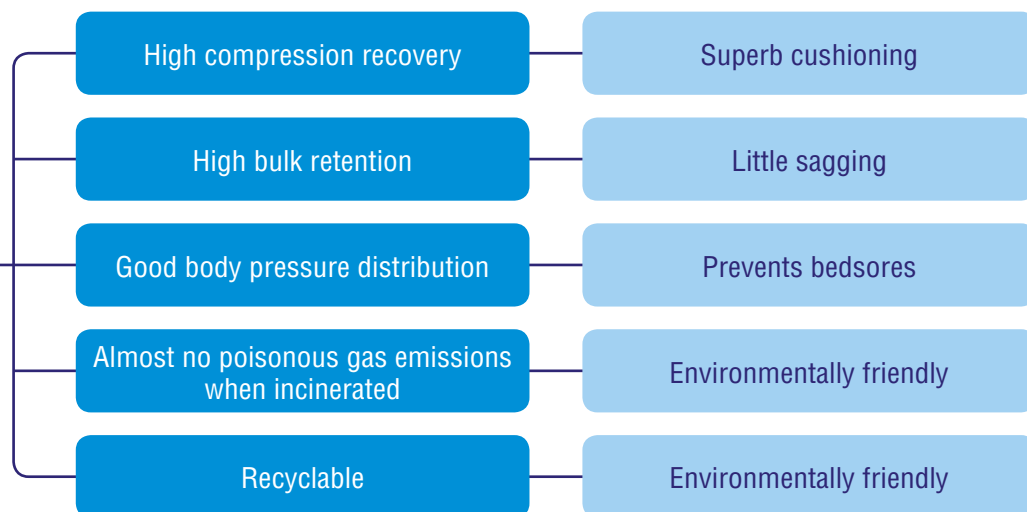
*a 3D spring structure with rubber elasticity, offers exceptional breathability and water repellency while maintaining high elasticity. Its durability and lightweight give it wide applicability in new fields.*

## • Concept •

### 1 Continuous filament, random loop 3D spring structure



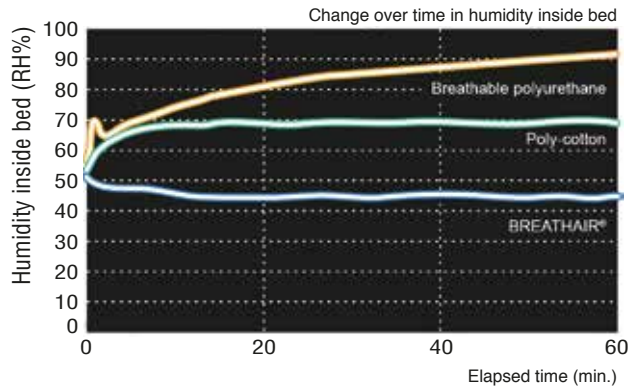
### 2 Uses the thermoplastic elastomer **PELPRENE<sup>®</sup>** \*



\* **PELPRENE<sup>®</sup>** is TOYOBO's polyester-based thermoplastic elastomer. Has features of both rubber and engineering plastic, and is exceptionally durable. Comes in a wide range of hardness grades for many possible types of processing.

## ✓ Excellent moisture management

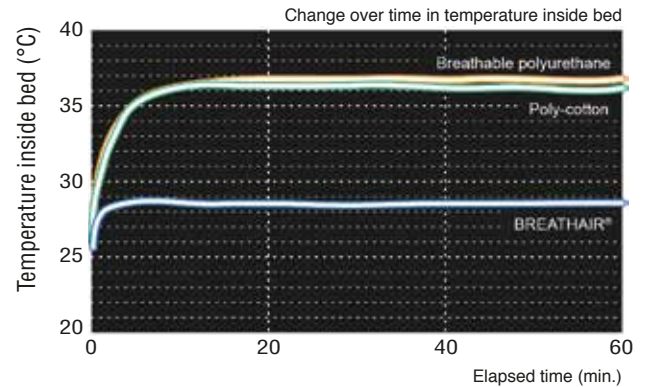
Little rise in water content, so humidity inside does not increase.



TOYOBO skin model method  
Heat plate: 37°C Amount of sweat: 120 g/m<sup>2</sup> · h  
Measurement environment: 20°C, 65% RH

## ✓ Cool and comfortable in summer

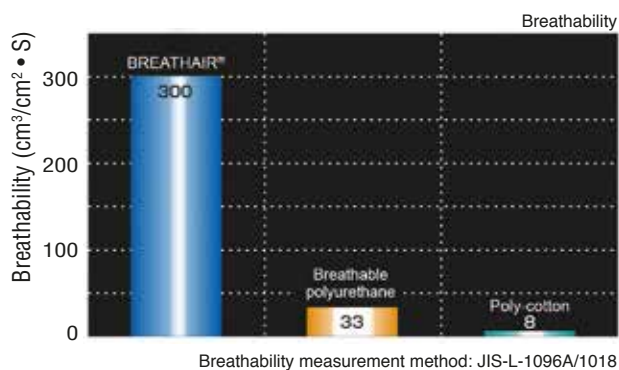
Holds temperature in winter when wrapped with covers.



TOYOBO skin model method  
Heat plate: 37°C Amount of sweat: 120 g/m<sup>2</sup> · h  
Measurement environment: 20°C, 65% RH

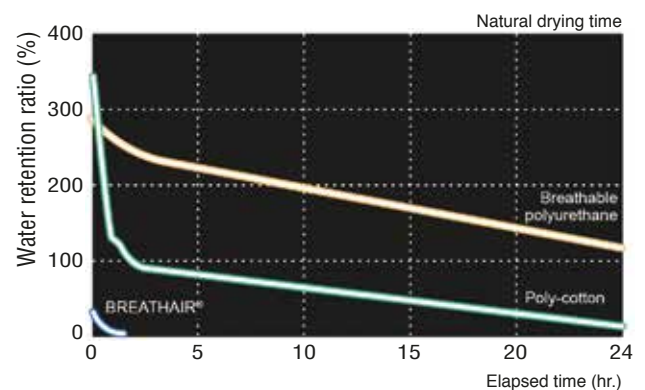
## ✓ Comparison of breathability

BREATHAIR® is far more breathable than polyurethane or poly-cotton.



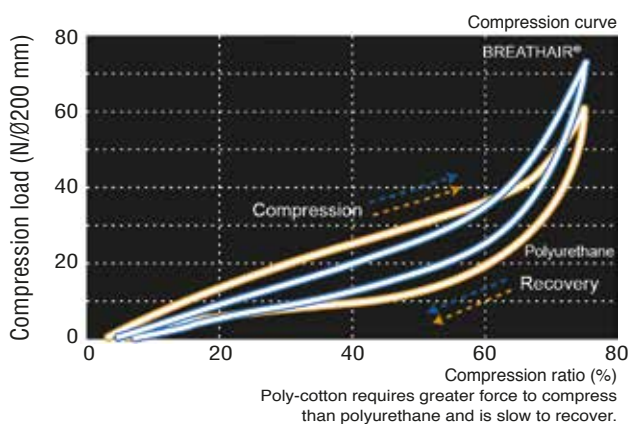
## ✓ Highly water repellent, dries quickly, washable

Polyurethane did not dry even 24 hours later.



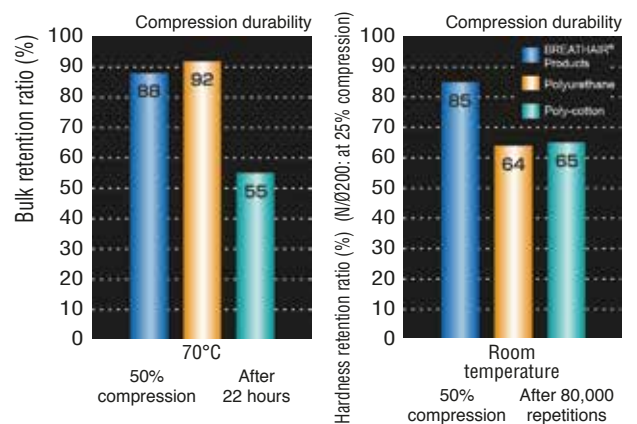
## ✓ Superb compression recovery

BREATHAIR® compresses more gently than polyurethane and recovers more quickly.



## ✓ High compression durability

The action of highly durable polyester elastomer controls sagging.



## ✓ Environmentally friendly

Material is eco-friendly, as almost no poisonous gas is released when incinerated.

## ✓ Durability against ozone disinfection

BREATHAIR® will not sag, even after ozone disinfection.

## ✓ Recyclable

Polyurethane cannot be recycled easily and is commonly discarded as waste. But BREATHAIR® is made of a polyester elastomer, so it can be melted and recycled in an environmentally friendly process. It is also suitable for recycling to fuel, with a conversion ratio to Bunker A fuel oil of over 90%.



# BREATHAIR®

## • Examples of use:



FURNITURE



BEDDING



MEDICAL,  
HEALTHCARE



VEHICLES  
(BOATS)



SPORTS



CHILDHOOD  
PRODUCTS

**ITALVIPLA**  
high quality performance

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