



# **BREATHAIR® – An Air-permeable and Lightweight 3D Structure**

A new solution for innovative cushion materials

## BREATHAIR® – the innovative 3D structure: A material for air-permeable cushion solutions

The innovative 3D structure BREATHAIR® is highly water repellent and exceptionally air-permeable. Its additional elasticity, durability and property of being lighter than polyurethane at the same level of hardness give it wide applicability in numerous new fields. All due to its 3D spring structure of continuous filament with rubber elasticity.



### Excellent hygiene properties

BREATHAIR® is a continuous filament loop structure that effortlessly meets the high SEK Standards issued by the Japan Textile Evaluation Technology Council (JTETC) regarding antimicrobial and deodorant functions:

- Mold prevention due to high breathability
- Reduced bacterial growth
- Mites cannot propagate well
- Easy to wash and dries quickly, since it is highly water repellent
- Suitable for ozone sterilization
- Easy to handle and maintain due to its light weight

### Ideal material properties thanks to PELPRENE®

PELPRENE® is a special polyester-based thermoplastic elastomer, which has features of both rubber and engineering plastics. That makes it exceptionally durable. Its wide range of hardness levels makes PELPRENE® suitable for customer specific solutions.

- Long lasting compression recovery for superb cushioning
- Little sagging thanks to high bulk retention
- Prevents bedsores due to its good body pressure distribution
- Environmentally friendly, since it is recyclable and suitable for recycling to Bunker A fuel oil

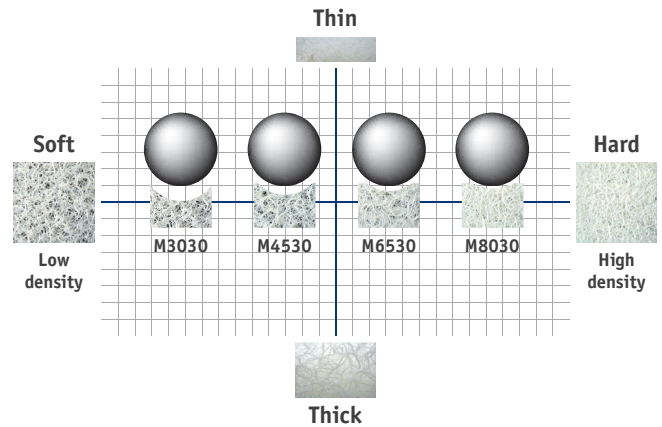


## Versatile from thick to thin

BREATHAIR® can be designed according to performance requirements by adjusting thickness and density:

Density: 30 to 200 kg/m<sup>3</sup>    Width: 80 to 140 cm  
 Thickness: 15 to 100 mm    Length: 60 to 230 cm

From a slim, flexible protective layer to a thick cushioning, BREATHAIR® is the innovative material suited for multiple purposes.



## One material – all possibilities

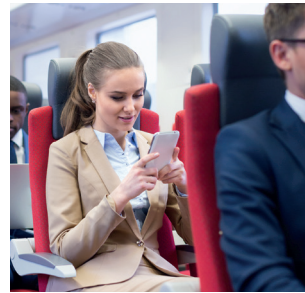
BREATHAIR® has got the solution for all of these applications:



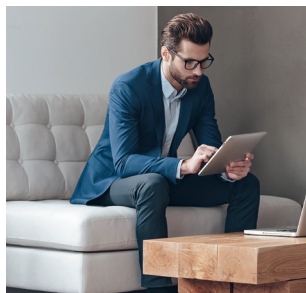
Medical Healthcare



Sports



Vehicles seating



Furniture



Bedding



Other – Bathtub scrubbers, insoles, etc.

### Caution regarding use

- Prior to using the products listed here, please review thoroughly and confirm their suitability for your planned purpose of use, processing conditions, etc.
- Please contact our customer service for more detailed information on working with the material.
- Please store out of direct sunlight and away from exhaust gas.



**Contact:**

Frank Leymann



Office address:

PHP Fibers GmbH

Industrie Center Obernburg

63784 Obernburg, Germany

T +49 6022 81-2951

M +49 171 8138299

[enquiry.newproduct@indorama.net](mailto:enquiry.newproduct@indorama.net)

[mobility.indoramaventures.com](http://mobility.indoramaventures.com)