

# porelle<sup>®</sup> sport

## Porelle Sport

Porelle Sport is a family of hydrophilic membranes that are:

*lightweight, quiet, flexible and durable.*

Just like our own skin Porelle Sport is:

*extremely waterproof, but can also breathe.*

Porelle Sport includes a range of membranes (12 - 40  $\mu\text{m}$  in thickness) designed for use in active apparel. Each membrane offers a number of performance benefits, but are also tailored to meet enhanced requirements for specific apparel applications:

**12 or 18  $\mu\text{m}$  membrane:** *lightweight and highly breathable for use in garments*

**25  $\mu\text{m}$  membrane :** *low noise and extremely waterproof for use in gloves*

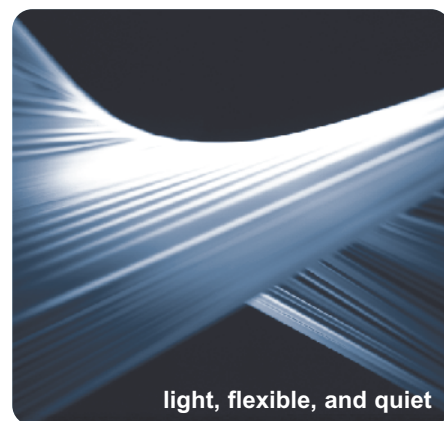
**25  $\mu\text{m}$  membrane:** *durable and extremely waterproof for use in footwear*

**25  $\mu\text{m}$  membrane:** *low noise and very soft for use in hats*

**40  $\mu\text{m}$  membrane:** *durable and highly breathable for use in socks*

Porelle Sport differs from other TPU films available in the market. It is not an extruded or blown film, but produced using a novel coating process designed and developed in-house. It remains consistently waterproof in use due to its unique uniform structure. It is a soft tactile membrane that lacks the crinkle effect often associated with other films. It has been proven to be extremely easy to handle in adhesive or flame bonding lamination processes ensuring high productivity yields.

*Porelle Sport is a membrane technology  
in its own class .....*



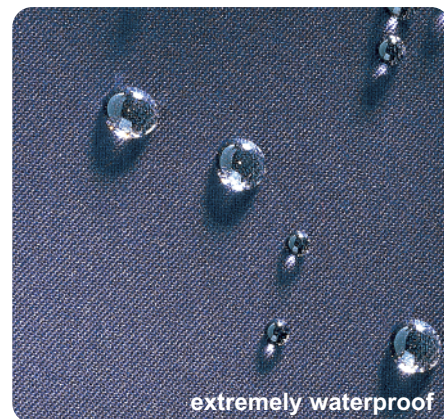
light, flexible, and quiet

## Porelle Protects

Porelle Sport has a solid structure that physically stops water-droplets and wind passing through the garment. Rain, snow, or wind

*Porelle Sport protects,  
keeping you dry.*

When laminated to a fabric Porelle Sport can achieve waterproofness levels in water column tests in excess of 10,000 mm. It will retain this performance after multiple wash cycles.



extremely waterproof

## Porelle Breathes

When we work hard we sweat. This creates a micro-climate inside the garment. If the sweat becomes trapped inside the garment it can quickly form a wet layer leaving you feeling clammy and hot when your working hard, then becoming cold as you warm-down. Porelle Sport controls the micro-climate inside the garment by absorbing and dissipating sweat through the diffusion of water vapour molecules. When you work hard

*Porelle Sport breathes,  
keeping you comfortable.*

In testing Porelle Sport membranes can achieve breathability levels up to 18,000 g/m<sup>2</sup>/hr on test method ASTM E96: 95 procedure BW.

## Contact details

PIL Membranes Ltd  
Estuary Road  
Kings Lynn  
Norfolk  
PE30 2HS

Tel: + 44 1553 622000

Fax: +44 1553 622097

email: [info@porellemembranes.com](mailto:info@porellemembranes.com)

[www.porellemembranes.com](http://www.porellemembranes.com)

porelle<sup>®</sup> is a registered trademark of KLTechnologies Ltd