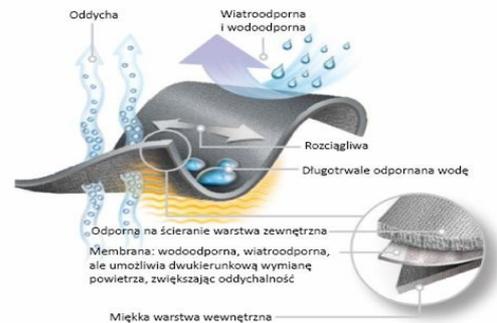




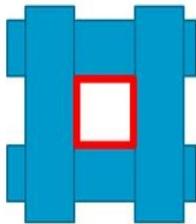
Polartec® NeoShell®

The most breathable waterproof fabric available on the market. Polartec for many years offered the most complete system of high-strength knitted created for each of the layers of clothing, with one exception: never offer a fully waterproof fabric, until now. Latest knit is a revolutionary combination of water resistance and breathability.

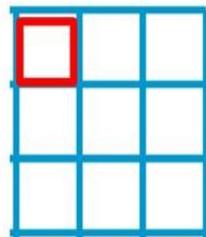
Polartec® NeoShell®



Struktura tradycyjnej membrany



Struktura membrany Polartec® NeoShell®



Unlike most hardshells on the market that did not airtight, Polartec NeoShell® allows its actual flow (0.5 CFM or 2 l / m² / sec.). Even a very small amount of air transmitted, irrelevant from the point of view of hypothermia, significantly speeds up the moisture transport. While traditional shell fabrics require heat and pressure inside the clothes, the membrane began to work, Polartec NeoShell® breathes actively thanks to the unique membrane created with submicron fibers that allows for hardshell unprecedented air permeability.

The new fabric receives high ratings on traditional waterproof and breathability measures like RET and MVTR. However, these outdated static tests sometimes produce results that are completely inconsistent with reality, eg.: hardshells supposedly are more breathable than a technical fabric with a weight of 200 g., Because Polartec encourages industry to benefit from research that more closely mimic the actual conditions of use knitted ie. dynamic breathability test (ASTM 2298). This test is currently used by the US army in order to assess the material, because much more precisely reflects the actual experience of users.

Most types of knitted fabric is stretchable to the extent that some recognized clothing brands will offer Polartec® NeoShell® as "waterproof softshell", while others will place clothes made from this fabric in their collections for hardshell. The new hydrophobic, microporous polyurethane membrane used in Polartec® NeoShell® offers the best combination of both worlds.

