

Excite to win!

LIGHTEST INSULATION TO GO.



 **BASF**

We create chemistry

Elastopan® Boots

Leading boots manufacturers use Elastopan®

Thanks to cooperation with important boots manufacturers it has been possible to further improve the performance of Elastopan® polyurethane systems for boots. The result is a new range of Elastopan® polyurethane systems that guarantee effective protection from wind, water, snow, ice, mud and filth.

Elastopan® polyurethane is the perfect fit for boots

Using in boots for work and leisure Elastopan® polyurethane can show its strength as the most versatile material: Boots fully made of Elastopan® Boots show highest thermal insulation and maximum flexibility at the leg as well as excellent support and unrivaled comfort at the sole. The latest development of Elastopan® Boots has further improved this performance and combines it with reduced density - for the best performing and lightest boots in the market.

Properties	Outsole	Standard leg	Winter leg
Density [g/cm ³]	500 - 600	600 - 700	500 - 600
Hardness [Shore A]	45 - 50	35 - 45	30 - 40
Tensile strength [Mpa]	> 6	> 8	> 6
Rebound [%]	> 45		
Elongation [%]	> 450	> 450	> 450
Abrasion [mm ³]	< 250		
Flexural strength [cycles]	60,000		
Hydrolysis (14 days)* [% retention of tensile strength]	> 80	> 80	> 80

* 70 °C, 100 % relative humidity / Measured values were determined on specimens produced on a pilot plant.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. (October 2019)

- **Naturally insulating:** The foam structure of Elastopan® polyurethane forms a protective layer that keeps your feet warm even at extreme temperatures.
- **Cold flexible:** The hardness increase of boots at very low temperatures can be significant and reduces the wear comfort at extreme weather conditions. BASF developed a leg material specifically for winter boots that offers lower stiffness and thus higher flexibility even at low temperatures (-20 °C).
- **Maximum design flexibility:** The wide potential for customizing Elastopan® polyurethane systems for the production of the sole and leg allows maximum flexibility for designing products always in line with the fashion trends.
- **Stronger and more durable:** Boots made of Elastopan® last longer and offer effective protection from extreme weather and temperatures, mud and filth as well as aggressive substances.
- **Enhanced processing behavior:** Elastopan® Boots shows improved leg's flowability and excellent bonding between leg and sole. This allows a high level of automation during the production via direct injection process.
- **Essentially lighter:** Compared to boots made of PVC and rubber those made of Elastopan® Boots polyurethane can be 30 % lighter. This reduces fatigue during long walks or with intensive use and thus offers an unrivaled walking comfort.

