



# Sumfoam

A new CLASS  
of materials

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# Sumfoam



## Innovative

World's first polymer foam with pore in the nanometer range



## Versatile

Processing established polymers with a disruptive foaming technology



## Efficient

Pore size reduction of more than factor 1000 compared to common foams



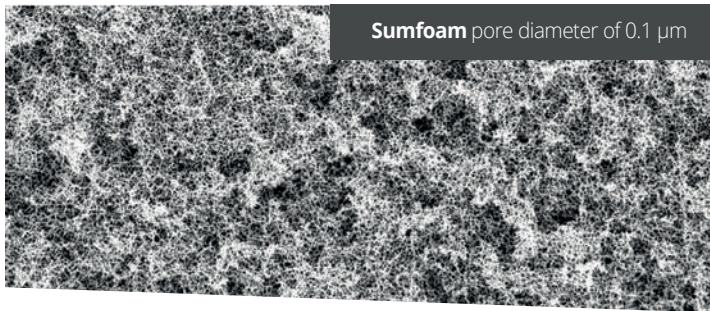
## Unique

An entirely new class of materials with outstanding properties



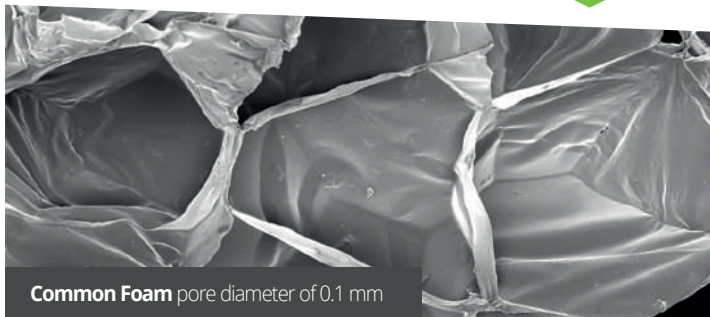
## Sustainable

Foamed with a 100% climate-friendly blowing agent



Sumfoam pore diameter of 0.1  $\mu\text{m}$

same magnification



Common Foam pore diameter of 0.1 mm

## Technical Specifications

Material	Foamed acrylic copolymer
Appearance	Granule / flakes / powder
Pore structure	Open-cellular
Polymer network	Interconnected matrix
Thermal conductivity	< 23 mW / mK
Temperature range	- 270 °C to + 80 °C
Surface nature	Highly hydrophobic
PH value (ISO 10390)	6.5 - 7.5

	Sumfoam LP	Sumfoam KU
Bulk density	0.05 - 0.08 g/ml	0.08 - 0.12 g/ml
BET surface	> 50 m <sup>2</sup> /g	> 100 m <sup>2</sup> /g
Pore size	< 200 nm	< 50 nm
Porosity	> 90 %	> 85 %

## Fields of Application

