

# High Rebound

ECHOCEL  
DATASHEET

## HIGHLIGHTS

- High energy return
- Durable support
- Lightweight Cushioning
- Consistent Performance
- Easy to Integrate

## SPECIFICATIONS



**Density**  
270-370 kg/m<sup>2</sup>



**Resilience**  
55%



**Tensile strength**  
483kPa



**Deflection**  
82-124kPa



**Elongation**  
130%



**Colors**

## AVAILABLE THICKNESSES



1.6 3.2 mm

**echoCEL**  
SMART.PU



check online

A BRAND OF **FRECOMA**

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[www.frecoma.nl](http://www.frecoma.nl)

Echocel® High Rebound is a high-resilience polyurethane foam engineered for energy return, dynamic support, and durability. This performance-grade material is ideal for orthotics, prosthetics, and footwear components that demand responsive cushioning and long-term reliability.

**Echocel® High Rebound harnesses the energy of each step to help propel the user into the next step, increasing comfort and reducing fatigue.**

This dynamic open-cell foam technology reacts instantly to each step, providing 55% more rebound. Its constant resilience and cushioning help maintain an energy-efficient stride while combating fatigue.

The medical urethanes are crafted from medium-density micro cellular foam (with cells around 100 microns in size). They contain no plasticizers or toxic materials, ensuring they will not become brittle or crack over time.

Validated against:  
*Cytotoxicity and Extractable substances (MEM)*  
*Direct primary skin irritation (PSI)*

EU-MDR



Manufacturer's warranty & storing: When working with multiple materials during processing, chemical reactions and incompatibilities between components should always be tested beforehand. We are not liable for damage caused by failure to follow our instructions or responses beyond our influence and control. Store under normal conditions, but avoid storage in direct sun. The goods are guaranteed for 6 months from the date of delivery.

This version replaces all previous versions.

V 2.5.1