



**TECHNICAL DATA SHEET**

**MATERIAL :**

**FATES™ Impact Bio-Foam**



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## Soft plant-based flexible PU foam for commercial applications as midsole

### GENERAL INFORMATION

FATES™ Impact Bio-Foam is a patented premium thermoset polyester polyurethane foam made from an industry-leading plant-based content of up to 65%. FATES™ Impact Bio-Foam has shown excellent longevity under both simulated and real-life aging conditions.

This product is available in all colors.

### PERFORMANCE CHARACTERISTICS

- Comfortable
- Resilient material
- Low compression set
- Low-hardness and high bio-content
- High-performance
- Excellent long-term performance

### DETOXIFICATION BENEFITS

- FATES™ Impact Bio-Foam is made through a high-efficiency molding process
- FATES™ Impact Bio-Foam significantly decreases the product's carbon footprint
- Limited use of non-renewable raw materials
- Safe working environments across Evoco's R&D and production facilities
- Reduction in hazardous ingredients, such as toxic crosslinkers, heavy metal catalysts, and volatile blowing agents

### THIRD-PARTY CERTIFICATION



## PRODUCT PROPERTIES

Criteria	Unit	Standard	Impact Bio-Foam
Bio-based content*	%	ASTM D6866, Farm Bill 2008, FTC Green Guides, EN 16785-1	Up to 65
Density	g/cm <sup>3</sup>	ASTM D792	0.3 - 0.5
Shore A hardness	Asker C	ASTM D2240	55 ± 10
Tensile strength	Kg/cm <sup>2</sup>	ASTM D412 & D618	>17
Elongation at break	%	ASTM D412	>250
Die C Tear	kgf/cm	DIN53515	≥10
Resiliency	%	DIN 53512 & 53573 & ISO 4662	20 -30

\*Data based on best available information at time of print

## GENERAL MATERIAL INFORMATION

Criteria	Impact Bio-Foam
Material composition	A high-performance flexible midsole polyurethane Bio-Foam material
Color options	Varies, PU foams are not color-segregated
Product source	Footwear manufacturing
Source location	Vietnam
Pricing	Per request
Availability	Per request

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[info@evocoltd.com](mailto:info@evocoltd.com)



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