



TECHNICAL DATA SHEET
MATERIAL :
FATES™ Classic Bio-Foam

Soft plant-based flexible PU foam for shoe sole applications

GENERAL INFORMATION

FATES Classic Bio-Foam is a patented premium thermoset polyester polyurethane foam made from an industry-leading plant-based content of up to 72%. FATES Classic 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 Classic Bio-Foam is made through a high-efficiency molding process
- FATES Classic 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



evoco

101 College St., Suite 300
Toronto, Canada

CLASSIC BIO-FOAM | TECHNICAL DATA SHEET

PRODUCT PROPERTIES

Criteria	Unit	Standard	Classic Bio-Foam
Bio-based content*	%	ASTM D6866, Farm Bill 2008, FTC Green Guides, EN 16785-1	72-76
Density	g/cm ³	ASTM D792	0.3-0.5
Hardness	Asker C	ASTM D2240	25-40
Compression set	%	ASTM D395 (Method A)	<10
Rebound resilience	%	ASTM D3574	40-45
Tensile strength	Kg/cm ²	ASTM D412	8-12
Elongation at break	%	ASTM D412	400-500
Split tear strength	N/mm	SATRA TM65	1.5-2
Die-C tear strength	N/mm	ASTM D624	6-10

*GreenCircle Certified (Certification number: 22-0040)

GENERAL MATERIAL INFORMATION

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

DISCLAIMER

All statements and information in this document and in all our other publications (including electronic ones) are based on our current knowledge and experience and are the exclusive (intellectual) property of Evoco. No part of this document may be copied, shown to third parties, reproduced, communicated to the public, or used in any other way without Evoco's written consent. The technical information in this document serves as an indication and is non-exhaustive. Evoco is not liable for any damage, either directly or indirectly, due to (editorial) errors, incompleteness, and/or incorrectness of this document. This includes but is not limited to, incompleteness and/or incorrectness due to technological changes or any research conducted between the date of publication of this document and the date on which the product is acquired. Evoco reserves the right to amend the wording of this document.





Make a Material Difference
Contact us to learn more
info@evocoltd.com



evoco