

TECHNICAL DATA

Algae EVA-E

Applications

- Apparel
- Sporting goods
- Luggage
- Construction materials
- Consumer goods
- Packaging
- Furniture
- Automotive, etc.

Form

- Produced in bun molded form
- Standard slab sizes:
100 cm x 200 cm
- Thickness: 1 mm plus

Stock Colors



Note: The colors you see on your screen may not be an accurate reproduction of the actual product. We strive to make our colors as accurate as possible, but screen images are intended as a guide only and should not be regarded as absolutely correct.

BLOOM foam is an EVA composite material made with algae and recycled EVA. Renewably sourced from waterways where algae has become an environmental problem, BLOOM’s harvesting process helps mitigate devastating effects on freshwater ecosystems, and recirculates fresh water back into the habitat. BLOOM foams can be used as direct replacements for conventional closed-cell EVA foams.

Key features include great shock absorption, durability, flexibility, weight reduction, and thermal insulation. BLOOM foam is the environmentally-aware alternative to synthetic and petroleum-based foams, without compromising quality and performance.

Property and Test Standard	Units	Algae EVA-E
Hardness (TM-R-012)	(Asker C)	25–27
Density (TM-R-033)	(g/cm ³)	0.26
Split Tear (TM-R-041)	(kg/cm)	1.4
Compression Set (TM-R-09)	(%)	81.82
Shrinkage (TM-R-031)	(%)	3
Die C Tear (TM-R-040)	(kg/cm)	3.91
Tensile Strength (TM-R-047)	(kg/cm ²)	11.9
Elongation (TM-R-047)	(%)	164.09
Stitch Tear (TM-R-036)	(kg/cm)	6.53
Abrasion (TM-R-002)	(mm ³)	–
Ross Flexing (TM-R-030)	Ambient	No Cut Growth
	Cold -15C	No Cut Growth
Impact Testing (ASTM F1976)	Peak (g)	9.59
	Peak T (ms)	17.2
	Force (N)	799.41
	Energy Return (%)	60.59

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Note: The data shown above should be used as a guideline for product selection. It is not intended to represent, replace, or be used as a proxy for a specific product sales specification. The physical properties are averages based on limited production runs, and are subject to change as additional data becomes available.

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The BLOOM Advantage

Shown here are some key results of a lifecycle assessment performed on BLOOM’s algae-EVA resin formulation. When compared to conventional EVA, BLOOM foams provide larger benefits in the following categories:

- Human health
- Climate change
- Resource consumption
- Water consumption, and
- Ecosystem impact

Due to limited data on conventional EVA in the marketplace, only Resource Consumption and Climate Change showed a greater than 90% certainty of impact.

Impact Category	Units	Algae-EVA	EVA
Resources	Econ Units	9.61E-02	1.28E-01
Climate Change	kg CO ₂ eq.	1.17E+00	1.48E+00

The same data is graphed below, as percentages of environmental impact, comparing BLOOM and conventional EVA.

