NIKE GRIND EVA FOAM

TECHNICAL DATA SHEET

OCTOBER 2020

EVA FOAM

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Ethylene-vinyl acetate (EVA) foam materials from footwear midsoles are available in various shapes including full components, cutting scraps, injection scraps and flashings.

NIKE GRIND

Created by the regeneration of manufacturing scraps and end-of-life shoes, Nike Grind materials are high-performance, long-lasting and environmentally conscious, providing the ultimate foundation for the next generation of sustainable design.

POTENTIAL APPLICATIONS

A wide range of properties for applications such as sports surfaces, flooring, furniture design and construction materials.

PERFORMANCE CHARACTERISTICS

- Flexibility
- Shock absorption qualities
- Resistant to stress-cracking
- Low liquid absorption
- Thermal insulation

POST-INDUSTRIAL EVA FOAM

EVA Components

POST-CONSUMER FOAM

EU Foam

The images above are examples of Post-Industrial and Post-Consumer Foam materials. See the following page for a complete list of available EVA Foam materials.

EVA FOAM

POST-INDUSTRIAL AND POST-CONSUMER FOOTWEAR EVA FOAM FROM MIDSOLES AND FLASHINGS

GENERAL MATERIAL INFORMATION

MATERIAL COMPOSITION:	**EVA FOAM** Mechanically ground, foamed and cross-linked ethylene vinyl acetate (EVA) foams consisting of various grades. Nike Grind EVA consists of various Nike foam formulations, generally ranging in density (0.05–0.50 g/cm^3) and hardness. Expanded foams contain 70% (by weight) EVA and/or polyolefin materials and 30% (by weight) filler (calcium carbonate) and processing additives.
COLOR OPTIONS:	Varies, EVA foams are not color-segregated.
PRODUCT SOURCE:	Footwear manufacturing; Post-consumer footwear, samples and defectives
SOURCE LOCATION:	Indonesia, Vietnam, China, Belgium, U.S.
PRICING:	Per request
AVAILABILITY:	Per request

MATERIAL PROPERTIES	MCS
COMPRESSION SET (%):	60
ABRASION RESISTANCE:	Not Determined
HARDNESS, ASKER C:	32–60
SHRINKAGE (%):	2
TENSILE STRENGTH (kg/cm^2):	20
SPECIFIC GRAVITY (WATER=1.0):	0.19–0.22
ELONGATION LENGTH (%):	200–400
TEAR (kg/cm):	10
SPLIT TEAR (kg/cm):	2.5
MELTING POINT (°C):	Not Determined
THERMAL CONDUCTIVITY:	Not Determined
FLASH POINT (°C):	Not Determined

PRODUCT PROPERTIES

POST-INDUSTRIAL MANUFACTURING FOOTWEAR EVA FOAM FROM OUTSOLES AND COMPONENTS AND POST-CONSUMER FOAM

MATERIAL:	POST-INDUSTRIAL EVA FOAM				POST-CONSUMER FOAM	
PRODUCT:	EVA Injections	EVA Flashings	EVA Components	EVA Laminated Scraps	EU Foam	U.S. Foam
SIZING (mm):	~10 x (up to 300)	10 x (300–500)	Roughly Chopped	Roughly Chopped Scraps	1–4	1–5
DENSITY (g/cm^3):	Not Determined	0.67	0.24	0.25	0.45	0.47
TOTAL ASH CONTENT (%):	Not Determined	7.1	11.3	12.8	8.5	5.6
VINYL ACETATE CONTENT (WT%):	Not Determined	Not Determined	Not Determined	Not Determined	Not Determined	Not Determined

CONTACT

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