Sealed Air

ETHAFOAM® M5

POLYETHYLENE FOAM

ETHAFOAM® M5 polyethylene foam is a strong, resilient, high-density 10.0 pcf (160.2 kg/m³), closed-cell foam. It is specially formulated to meet the stringent military and blowing agent requirements (less than 10% LEL), and is an excellent material for cushioning components in packaging applications for loadings up to 20.0 psi (138 kPa).

ETHAFOAM M5 has outstanding dimensional stability and recovery characteristics that provide optimal cushioning protection against repeated impacts. To achive optimum performance, Sealed Air recommends that qualified packaging engineers design the total packaging solution.

Sizes Available in Black

(Planks):
2" x 24" x 108"

Flammability

ETHAFOAM® M5 polyethylene foam has successfully passed FMVSS 302 flammability testing, conducted according to the U.S. Code of Federal Regulations, CFR 49.

Benefits of ETHAFOAM® M5

ETHAFOAM® M5 polyethylene foam is a durable, lightweight, flexible, solid extruded product. The foam meets or exceeds the requirements in CID A-A-59136, Class 1, Grade A, Type V, and PPP-C-1752D, Type V, Grade A. As the properties listed on the reverse suggest, ETHAFOAM M5 offers excellent strength, resistance to creep under load, vibration and shock absorbency, and water resistance characteristics. ETHAFOAM M5 is part of an exclusive family of ETHAFOAM military packaging products that also includes ETHAFOAM® M1, ETHAFOAM® M1 AS, ETHAFOAM® M1 FR/AS, ETHAFOAM® M3 and ETHAFOAM® M4. Each of these products has been designed and formulated to consistently meet the stringent shipping, storage and handling requirements for military applications.

ETHAFOAM M5 is produced with a patented manufacturing process. This process delivers a higher quality product with improved dimensional stability and safety. This process technology incorporates a patented CFC- and HCFC-free blowing agent system and an accelerated curing system that reduces residual blowing agents in ETHAFOAM products to trace amounts.

ETHAFOAM M5 meets the requirements of the U.S. Clean Air Act Amendments. It is easily fabricated, impervious to most chemicals, non-abrasive and performs consistently over a wide range of temperatures.

ETHAFOAM M5 is also reusable and completely recyclable because it is made of non-crosslinked polyethylene.

ETHAFOAM® packaging products

Specialty Materials Performance Solutions

ETHAFOAM® M5

POLYETHYLENE FOAM

Physical Properties of ETHAFOAM® M5 Polyethylene Foam

PHYSICAL PROPERTIES†	TEST METHOD	DIRECTION	VALUE
Density	ASTM D3575, Suffix W, Method B; ISO 845		pcf (kg/m^3) 10.0 (160.2)
Blowing Agent Content	In-house Method		< 10% LEL
Compression Set	ASTM D3575, Suffix B (50% compr.)	Vertical	< 15%
Compressive Creep (1000 hrs @ 73˚F [23˚C])	ASTM D3575, Suffix BB	Vertical	< 10% @ 20.0 psi (138 kPa)
Compressive Deflection @ 10% @ 25% @ 50%	ASTM D3575, Suffix D	Average	psi (kPa) 84 (579) 88 (607) 132 (910)
Thermal Stability	ASTM D3575, Suffix S; ISO 2796		< 1.0%
Thermal Conductivity @ 75˚F (24˚C) @ 23˚F (-5˚C)	ASTM D3575, Suffix V; EN 28301; ISO 2581	Vertical	BTU•in/hr•ft^2•°F (W/m°K) 0.42 (0.06) 0.37 (0.05)
Water Absorption	ASTM D3575, Suffix L; ISO 2896; ASTM C272		lb/ft^2 (kg/m^2) 0.2 (1.0) < 1% by volume
Buoyancy	ASTM D3575, Suffix AA		pcf (kg/m^3) 52 (833)
Tensile Strength @ peak	ASTM D3575, Suffix T; ISO 1798	Average	psi (kPa) 160 (1100)
Tensile Elongation	ASTM D3575, Suffix T; ISO 1798	Average	30%
Tear Strength	ASTM D3575, Suffix G	Average	lb/in (N/mm) 54 (9.5)

†The data presented for this product are for unfabricated ETHAFOAM polyethylene foam products. While values shown are typical of the product, they should not be construed as specification limits.

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Specialty Materials
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