



Density 6.0 pcf (96.1 kg/m³)
Maximum Loading 10.0 psi (69 kPa)
Color Black



ETHAFOAM™
packaging products

ETHAFOAM™ M4 Polyethylene Foam

ETHAFOAM™ M4 polyethylene foam is a strong, resilient, high-density 6.0 pcf (96.1 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 10.0 psi (69 kPa).

ETHAFOAM M4 has outstanding dimensional stability and recovery characteristics that provide optimal cushioning protection against repeated impacts. To achieve optimum performance, Dow recommends that qualified packaging engineers design the total packaging solution.

Size Available in Black (Planks):
2" x 24" x 108"

Product Features

ETHAFOAM™ M4 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 IV, and PPP-C-1752D, Type IV, Grade A. As the properties listed on the reverse suggest, ETHAFOAM M4 offers excellent strength, resistance to creep under load, vibration and shock absorbency, and water resistance characteristics. ETHAFOAM M4 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™ M5. Each of these products has been designed and formulated to consistently meet the stringent shipping, storage and handling requirements for military applications.

ETHAFOAM M4 is produced with Dow's patented *RapidRelease* manufacturing process. *RapidRelease* technology 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 M4 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 M4 is also reusable and completely recyclable because it is made of non-crosslinked polyethylene.

Flammability

ETHAFOAM™ M4 polyethylene foam has successfully passed FMVSS 302 flammability testing, conducted according to the U.S. Code of Federal Regulations, CFR 49.

ETHAFOAM
Product Information

Physical Properties of ETHAFOAM™ M4 Polyethylene Foam

Physical Properties ¹	Test Method	Direction	Value
Density	ASTM D3575, Suffix W, Method B; ISO 845		pcf (kg/m ³) 6.0 (96.1)
Blowing Agent Content	Dow 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% @ 10.0 psi (69 kPa)
Compressive Deflection @ 10% @ 25% @ 50%	ASTM D3575, Suffix D	Average	psi (kPa) 32 (221) 36 (248) 54 (372)
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 ² •K) 0.42 (0.06) 0.37 (0.05)
Water Absorption	ASTM D3575, Suffix L		lb/ft ² (kg/m ²) 0.3 (1.0)
Buoyancy	ASTM D3575, Suffix AA		pcf (kg/m ³) 55 (881)
Tensile Strength @ peak	ASTM D3575, Suffix T; ISO 1798	Average	psi (kPa) 80 (552)
Tensile Elongation	ASTM D3575, Suffix T; ISO 1798	Average	55%
Tear Strength	ASTM D3575, Suffix G	Average	lb/in (N/mm) 30 (5.3)

¹The 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.

*For information on products, design assistance
and testing services available from Dow, contact us at:
1-866-PKG-FOAMS (754-3626) or www.ethafoam.com*

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WARNING: ETHAFOAM polyethylene foam products are combustible and may constitute a fire hazard if improperly used or installed. During transportation, storage, installation and use, these products should not be exposed to open flame or other ignition sources.

ETHAFOAM PACKAGING PRODUCTS
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