



# ETHAFOAM M5

## Brand Polyethylene Foam Plank

ETHAFOAM\* M5\* polyethylene foam is a strong, resilient, high-density (9.5 pcf), closed-cell foam. It has the highest strength of all current ETHAFOAM brand polyethylene foam products, and is ideally suited as a component material in products requiring a shock absorbing, vibration dampening, insulating, barrier or buoyancy component, and as a material for cushioning components

in packaging applications for impacts or loadings up to 10.0 psi.

ETHAFOAM M5 polyethylene foam extruded plank is part of an exclusive family of ETHAFOAM brand polyethylene foam packaging products that also includes ETHAFOAM M1\*, M1 A/S, M3\*, M3 A/S and M4\* polyethylene foams.

Each of these products has been designed and formulated to consistently

meet the stringent shipping, storage and handling requirements for all military applications. ETHAFOAM M5 polyethylene foam is PPP-C-1752D, Type V, Grade A material.

Size available: Plank; 2" x 24" x 108"

Color available: Black

Physical Properties <sup>†</sup>	Test Method	Direction	Value	
Density	ASTM D 3575, Suffix W, Method B	N/A	9.5 pcf	
Compression Set	ASTM D 3575, Suffix B	Vertical	<15%	
Compressive Creep @ 10.0 psi (1000 hr/72°F)	ASTM D 3575, Suffix BB	Vertical	<10%	
Compression Deflection @ 10%	ASTM D 3575, Suffix D	Vertical	50 psi	
		Extruded	120 psi	
		Horizontal	80 psi	
		@ 25%	Vertical	55 psi
			Extruded	125 psi
			Horizontal	85 psi
		@ 50%	Vertical	90 psi
			Extruded	160 psi
			Horizontal	125 psi
Thermal Stability (linear change)	ASTM D 3575, Suffix S	N/A	<1%	
Thermal Conductivity		Vertical	0.4 Btu-in/hr-ft <sup>2</sup> -°F @ 75°F	
Water Absorption	ASTM D 3575, Suffix L	N/A	<0.2 lb/sq ft	
Buoyancy		N/A	52 lb/cu ft	
Tensile Strength @ peak	ASTM D 3575, Suffix T	Average	180 psi	
Tensile Elongation % @ break	ASTM D 3575, Suffix T	Average	31 %	
Contact Corrosivity	Fed. Std. – 101, Method 3005	Pass/Fail	Pass	

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

– See reverse side for additional properties and product information.

## Product Features

ETHAFOAM "M" polyethylene foam products provide the perfect performance solution for projects requiring polyethylene foam under U.S. Federal Specification PPP-C-1752D. The result is a product line that satisfies exacting military packaging demands for long-term product protection, and also eliminates the concern of creating a flammable atmosphere in military closed case applications. ETHAFOAM M1, M1 A/S, M3, M3 A/S, M4 and M5 polyethylene foams are intended for applications calling for Types I, III, IV and V material under PPP-C-1752D, respectively.

The new ETHAFOAM "M" polyethylene foam products are produced with Dow's

patented *RapidRelease* manufacturing process. This new process technology incorporates a patented CFC and HCFC-free blowing agent system and an accelerated curing system that reduces the residual blowing agents in all "M" foam products to less than 10 percent of the lower flammability limit (LFL). Certification of physical properties and blowing agent content is available upon request.

The "M" products offer the same cushioning properties that have earned other ETHAFOAM brand polyethylene foam products the highest marks throughout the protective packaging industry. These new products are resilient, durable, lightweight, flexible and resist compressive creep. They're reusable, completely recyclable and meet the

requirements of the U.S. Clean Air Act Amendments. In addition, they're easily fabricated, impervious to most chemicals, low-abrasive and may be used over a wide range of temperatures.

## Flammability

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

## For Additional Information or Technical Support

For information on products, design assistance and testing services available from Dow, call 1-800-441-4369.

**CAUTION:** ETHAFOAM brand polyethylene foam is combustible and should not be exposed to flame or other ignition sources.

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The Dow Chemical Company, 2020 Dow Center, Midland, MI 48674  
Dow Chemical Canada Inc., Suite 2200, Bow Valley Square 4, 250 – 6th Avenue S.W., Calgary, Alberta T2P 3H7  
Dow Quimica Mexicana, S.A. de C.V., Av. Paseo de las Palmas 555-3, Lomas de Chapultepec, Mexico 11000 D.F., Mexico

