

FEATURES

Ethafoam® M1 FRAS polyethylene foam is a durable, lightweight, flexible, solid extruded product. The foam meets the requirements for U.S. Federal Standard FAR 25.853 (a) and meets or exceeds the requirements in CID A-A-59136, Class 1, Grade D, Type I. As the properties listed on the reverse suggest, Ethafoam® M1 FRAS offers excellent strength, resistance to creep under load, vibration and shock absorbency, and water resistance characteristics.

a material for cushioning components in packaging applications for loadings up to 17.5 kPa (2.5 psi).

Ethafoam® M1 FRAS 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.

MILITARY GRADE

Ethafoam® M1 FRAS is part of an exclusive family of Ethafoam® military packaging products that also includes Ethafoam® M1, Ethafoam® M1 AS, Ethafoam® M3, Ethafoam® M4 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.

RAPIDRELEASE MANUFACTURING PROCESS

Ethafoam® M1 FRAS is produced with the 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.

BENEFITS

Ethafoam® M1 FRAS is formulated with anti-static properties to safely protect sensitive military electronics equipment during shipment and storage. Ethafoam® M1 FRAS also contains flame-retardant additives and has outstanding dimensional stability and recovery characteristics that provide optimal cushioning protection against repeated impacts. To achieve optimum performance, Sealed Air recommends that qualified packaging engineers design the total packaging solution.

Ethafoam® M1 FRAS is also reusable and completely recyclable because it is made of non-crosslinked polyethylene. Recycling operators may wish to segregate product with flame-retardant additives and process it separately. Flame-retardant additives in Ethafoam® M1 FRAS may increase polymer degradation in some high-temperature recycling operations.





Ethafoam® M1 FRAS

PRODUCT SPECIFICATION SHEET POLYETHYLENE FOAM

			Value
ASTM D3575-08 Suffix W ISO 845:2006		kg/m³ pcf	36.8 2.2
Dow Method		% LEL	< 10
EIA 541; US Federal Test Measured on plank surface		sec	⟨2
ANSI/EOS/ESD-S11.11-1993;		ohms	< 10 ¹¹
EIA 541; ASTM D257; Measured on plank surface		ohms/square	<1.0 x 10° - 1.0 x 10°
US CFR Title 14, 25.853 (a)			Pass
ASTM D3575, Suffix B (50% compr.); EN/ISO 1856 (23 °C, 25% compr.)	Vertical	%	< 20 < 10
ASTM D3575, Suffix BB	Vertical	%	< 10 @ 17.5 kPa (2.5 psi)
ASTM D3575, Suffix D	Average	kPA (psi)	50 (7) 69 (10) 124 (18)
ASTM D3575, Suffix S; ISO 2796		%	₹ 2.0
ASTM D3575, Suffix V; EN 28301; ISO 2581	Vertical	W/m°K (BTU•in/hr •ft²•°F)	0.06 (0.42) 0.05 (0.37)
ASTM D3575, Suffix L; ISO 2896; ASTM C272		kg/m² (lb/ft²)	1.5 (0.3) < 3% by volume
ASTM D3575, Suffix AA		kg/m³ (pcf)	930 (58)
ASTM D3575, Suffix T; ISO 1798	Average	kPa (psi)	220 (32)
ASTM D3575, Suffix T; ISO 1798	Average	%	50
ASTM D3575, Suffix G	Average	N/mm (lb/in)	1.75 (10)
	Dow Method EIA 541; US Federal Test Measured on plank surface ANSI/EOS/ESD-S11.11-1993; EIA 541; ASTM D257; Measured on plank surface US CFR Title 14, 25.853 (a) ASTM D3575, Suffix B (50% compr.); EN/ISO 1856 (23 °C, 25% compr.) ASTM D3575, Suffix BB ASTM D3575, Suffix D ASTM D3575, Suffix V; EN 28301; ISO 2796 ASTM D3575, Suffix V; EN 28301; ISO 2581 ASTM D3575, Suffix L; ISO 2896; ASTM C272 ASTM D3575, Suffix T; ISO 1798 ASTM D3575, Suffix T; ISO 1798	Dow Method	Dow Method

NOTICE: The data presented for this product is for unfabricated polyethylene foam product. While values shown are typical of this product, they should not be construed as specification limits. Sealed Air® makes no warranties, express or implied, including without limitation, warranties of merchantability or fitness for a particular purpose, with respect to any product, information or recommendations referred to herein, and shall not be liable for any loss or damage, directly or indirectly, related to such product, information or recommendations or for consequential or incidental damages. User should test each application to determine suitability of the product for the intended use.

