



Density 2.2 pcf (35.2 kg/m³)
 Maximum Loading 2.5 psi (17.5 kPa)
 Color Black, Natural



ETHAFOAM™
 packaging products

ETHAFOAM™ 220 Polyethylene Foam

ETHAFOAM™ 220 polyethylene foam is a strong, resilient, medium-density 2.2 pcf (35.2 kg/m³), closed-cell foam. It is ideally suited as a material for cushioning components in packaging applications for loadings up to 2.5 psi (17.5 kPa) and as a component material in products requiring a shock absorbing, vibration dampening, insulating and/or buoyancy component.

Resilient ETHAFOAM 220 polyethylene foam has outstanding recovery characteristics that provide optimal cushioning protection against repeated impacts. It is ideal for cushion packaging and material handling applications in the automotive, computer and medical device industries. In addition to reducing shock and vibration damage, ETHAFOAM protects against scratching. It performs well in high and low temperatures and is durable, reusable and recyclable.

Sizes Available in Black (Planks):

2" x 48" x 108"
 4" x 48" x 108"

Sizes Available in Natural (Planks):

1.5" x 48" x 108"
 2" x 48" x 108"
 2.5" x 48" x 108"
 3" x 48" x 108"
 4" x 24" x 108"
 4" x 48" x 108"

Product Features

ETHAFOAM™ 220 polyethylene foam is a durable, lightweight, flexible, solid extruded product. As the properties listed on reverse suggest, ETHAFOAM 220 polyethylene foam offers excellent strength, resistance to creep under load, vibration and shock absorbency, and water resistance characteristics.

ETHAFOAM 220 polyethylene foam is produced with Dow's patented *RapidRelease* manufacturing process. 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 polyethylene foam products to trace amounts. *RapidRelease* technology delivers a higher quality product with improved dimensional stability and safety.

ETHAFOAM 220 polyethylene foam is easily fabricated, impervious to most chemicals, non-abrasive and performs consistently over a wide range of temperatures.

ETHAFOAM 220 polyethylene foam is also reusable and completely recyclable because it is made out of non-crosslinked polyethylene.

Flammability

ETHAFOAM™ 220 polyethylene foam has successfully passed FMVSS 302 flammability testing, conducted according to the U.S. Code of Federal Regulations, CFR 49.

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Product Information

CAUTION: ETHAFOAM™ 220 polyethylene foam is combustible and should not be exposed to flame or other ignition sources.

Physical Properties of ETHAFOAM™ 220 Polyethylene Foam			
Physical Properties†	Test Method	Direction	Value
Density	ASTM D3575, Suffix W, Method B; ISO 845		pcf (kg/m ³) 2.2 (35.2)
Compression Set	ASTM D3575, Suffix B (50% compr.); EN/ISO 1856 (23°C, 25% compr.)	Vertical	< 20% < 10%
Compressive Creep (1000 hrs @ 73°F [23°C])	ASTM D3575, Suffix BB	Vertical	< 10% @ 2.5 psi (17.5 kPa)
Compressive Deflection @ 10% @ 25% @ 50%	ASTM D3575, Suffix D	Average	psi (kPa) 7 (50) 9 (65) 18 (124)
Thermal Stability	ASTM D3575, Suffix S; ISO 2796		< 1.5% < 2%
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; ISO 2896; ASTM C272		lb/ft ² (kg/m ²) 0.3 (1.5) < 3 vol %
Buoyancy	ASTM D3575, Suffix AA		pcf (kg/m ³) 58 (930)
Tensile Strength @ peak	ASTM D3575, Suffix T; ISO 1798	Average	psi (kPa) 32 (220)
Tensile Elongation	ASTM D3575, Suffix T; ISO 1798	Average	50%
Tear Strength	ASTM D3575, Suffix G	Average	lb/in (N/mm) 10 (1.75)

†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.

Additional Information or Technical Support

For information on products, design assistance and testing services available from Dow, call: 1-866-PKG-FOAMS

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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.

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