



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



ETHAFOAM™
 packaging products

ETHAFOAM™ 220 AS Polyethylene Foam

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

ETHAFOAM 220 AS is formulated with anti-static properties to safely protect sensitive electronic equipment during shipment and storage. ETHAFOAM 220 AS has outstanding dimensional stability and recovery characteristics that provide optimal cushioning protection against repeated impacts. It is ideal for cushion packaging and is used in many computer and electronics applications. To achieve optimum performance, Dow recommends that qualified packaging engineers design the total packaging solution.

Size Available in Pink (Planks):
 2" x 48" x 108"

Product Features

ETHAFOAM™ 220 AS polyethylene foam is a durable, lightweight, flexible, solid extruded product that meets EIA 541 requirements for static decay and surface resistance. It has been tested by SP – Swedish National Testing and Research Institute Electrotechnics/Electronics – and has received its ESD Approval Certificate as Class A and B material. As the properties listed on the reverse suggest, ETHAFOAM 220 AS offers excellent strength, resistance to creep under load, vibration and shock absorbency, and water resistance characteristics.

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

Flammability

ETHAFOAM™ 220 AS 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

| Physical Properties of ETHAFOAM™ 220 AS Polyethylene Foam | | | |
|---|---|-----------|--|
| Physical Properties ¹ | Test Method | Direction | Value |
| Density | ASTM D3575, Suffix W, Method B; ISO 845 | | pcf (kg/m ³) 2.2 (35.2) |
| Static Decay Rate | EIA 541; US Federal Test Standard 101C Method 4046.1 | | < 2 sec |
| Surface Resistance | ANSI/EOS/ESD-S11.11-1993; Measured on plank surface | | < 10 ¹¹ ohms |
| Surface Resistivity | EIA 541; ASTM D257; Measured on plank surface | | < 10 ¹² ohms/square |
| 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% by volume |
| 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; DIN 53 571; ISO 1798 | Average | 50% |
| Tear Strength | ASTM D3575, Suffix G | Average | lb/in (N/mm) 10 (1.75) |

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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