

ETHAFOAM 220

Brand Polyethylene Foam Plank

ETHAFOAM® 220 polyethylene foam is a strong, resilient, medium-density 36 kg/m³ (2.3 pcf), closed-cell foam. It is ideally suited as a component material in products requiring a shock absorbing, vibration dampening, insulating, and/or buoyancy component, and as a material for cushioning components in packaging applications for impacts or loadings up to 17.5 kPa (2.5 psi).

Sizes available in Black (Planks):

30 x 600 x 2750 mm
 50 x 600 x 2750 mm
 80 x 600 x 2750 mm
 100 x 600 x 2750 mm
 50 x 1000 x 2750 mm
 2" x 48" x 108"
 4" x 24" x 108"

Sizes available in Natural (Planks):

30 x 600 x 2750 mm
 40 x 600 x 2750 mm
 50 x 600 x 2750 mm
 60 x 600 x 2750 mm
 70 x 600 x 2750 mm
 80 x 600 x 2750 mm
 100 x 600 x 2750 mm
 30 x 1000 x 2750 mm
 40 x 1000 x 2750 mm
 50 x 1000 x 2750 mm
 60 x 1000 x 2750 mm
 70 x 1000 x 2750 mm
 2" x 24" x 108"
 2.5" x 48" x 108"
 3" x 24" x 108"
 4" x 24" x 108"

Physical Properties†	Test Method	Direction	Value
Density	ASTM D3575, Suffix W, Method B; ISO 845		<u>kg/m³ (pcf)</u> 36 (2.3)
Compression Set	ASTM D3575, Suffix B (50% compr.) EN/ISO 1856 (23° C, 25% compr.)	Vertical	< 20% < 10%
Compressive Creep (1000 hrs @ 23° C (73°F))	ASTM D3575, Suffix BB	Vertical	< 10% @ 17.5 kPa (2.5 psi)
Compressive Deflection @ 10% @ 25% @ 50%	ASTM D3575, Suffix D	Average	<u>kPa (psi)</u> 50 (7) 65 (9) 124 (18)
Thermal Stability	ASTM D3575, Suffix S ISO 2796		< 1.5% < 2%
Thermal Conductivity @ 24°C (75°F) @ -5°C (23°F)	ASTM D3575, Suffix V; EN 28301; ISO 2581	Vertical	<u>W/m²K (BTU-in/hr-ft²-°F)</u> 0.06 (0.42) 0.05 (0.37)
Water Absorption	ASTM D3575, Suffix L ISO 2896; ASTM C272		<u>kg/m² (lb/ft²)</u> 1.5 (0.3) < 3 vol %
Buoyancy	ASTM D3575, Suffix AA		<u>kg/m³ (pcf)</u> 930 (58)
Tensile Strength @ peak	ASTM D3575, Suffix T; ISO 1798	Average	<u>kPa (psi)</u> 220 (32)
Tensile Elongation	ASTM D3575, Suffix T; ISO 1798	Average	50%
Tear Strength	ASTM D3575, Suffix G	Average	<u>N/mm (lb/in)</u> 1.8 (10)

†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* 220 polyethylene foam is a durable, lightweight, flexible, solid extruded plank 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 new process technology incorporates a patented CFC- and HCFC-free blowing agent system and an accelerated curing system that reduces residual blowing

agents in ETHAFOAM brand polyethylene foam products to trace amounts.

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.

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

For Additional Information or Technical Support

For information on products, design assistance and testing services available from Dow, in North America call 1-800-441-4369; in Europe call +49-7227-91-4101.