



# ETHAFOAM 220 Anti-Static

## Brand Polyethylene Foam Plank

ETHAFOAM\* 220 Anti-Static polyethylene foam is a strong, resilient, medium-density 36 kg/m<sup>3</sup> (2.3 pcf), closed-cell foam. It contains internal anti-static agents designed to eliminate electrostatic potential from the foam itself, and to dissipate electrostatic discharges from other sources.

ETHAFOAM 220 Anti-Static 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).

**Size available (Planks):**  
50mm x 1000mm x 2750mm  
2" x 48" x 108"

**Color available:** Pink

Physical Properties <sup>†</sup>	Test Method	Direction	Value
Density	ASTM D3575, Suffix W, Method B; ISO 845		<b>kg/m<sup>3</sup> (pcf)</b> 36 (2.3)
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 <sup>11</sup> ohms
Surface Resistivity	EIA 541; ASTM D257; Measured on plank surface		< 10 <sup>12</sup> ohms/square
Compression Set	ASTM D3575, Suffix B (50% compr.)	Vertical	< 20%
	EN/ISO 1856 (23 C, 25% compr.)		< 10 %
Compressive Creep (1000 hrs @ 23° C)	ASTM D3575, Suffix BB	Vertical	< 10% @ 17.5 kPa (2.5 psi)
Compressive Deflection	ASTM D3575, Suffix D	Average	<b>KPa (psi)</b> 50 (7) 65 (9) 124 (18)
Thermal Stability	ASTM D3575, Suffix S		< 1.5%
	ISO 2796		< 2%
Thermal Conductivity	ASTM D3575, Suffix V; EN 28301; ISO 2581	Vertical	<b>W/m<sup>2</sup>K (BTU-in/hr-ft<sup>2</sup>-°F)</b> 0.06 (0.42) 0.05 (0.37)
Water Absorption	ASTM D3575, Suffix L		<b>kg/m<sup>2</sup> (lb/ft<sup>2</sup>)</b> 1.5 (0.3)
	ISO 2896; ASTM C272		< 3 vol %
Buoyancy	ASTM D3575, Suffix AA		<b>kg/m<sup>3</sup> (pcf)</b> 930 (58)
Tensile Strength @ peak	ASTM D3575, Suffix T; ISO 1798	Average	<b>kPa (psi)</b> 220 (32)
Tensile Elongation	ASTM D3575, Suffix T; DIN 53 571; ISO 1798	Average	50%
Tear Strength	ASTM D3575, Suffix G	Average	<b>N/mm (lb/in)</b> 1.8 (10)

<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\* 220 Anti-Static polyethylene foam is a durable, lightweight, flexible, solid extruded plank product that has been tested by SP – Swedish National Testing and Research Institute Electrotechnics/Electronics – and has received their ESD Approval Certificate as class A and B material. As the properties listed on reverse suggest, ETHAFOAM 220 Anti-Static polyethylene foam offers excellent strength, resistance to creep under load, vibration and shock absorbency and water resistance characteristics.

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

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

### Flammability

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

**CAUTION: ETHAFOAM 220 Anti-Static 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.

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