



# ETHAFOAM Select Anti-Static

## Brand Polyethylene Foam Plank

ETHAFOAM\* Select Anti-Static polyethelene foam is a strong, resilient, low density 29 kg/m<sup>3</sup> (1.8 pcf) closed cell foam. It contains an internal anti-static agent designed to eliminate electrostatic potential from the foam itself, and to dissipate electrostatic discharges from other sources.

ETHAFOAM Select Anti-Static is suited as a component material in products requiring a shock absorbing, vibration dampening, insulating and/or buoyancy component, and as a material for dunnage and cushioning components in packaging applications for impacts or loadings up to 13.8 kPa (2 psi).

**Size available (Planks):**  
50mm x 600mm x 2750mm  
2" x 24" x 108"

**Color available:** Pink

Physical Properties <sup>†</sup>	Test Method	Direction	Value
Density	ASTM D3575, Suffix W, Method B; DIN 53 420; ISO 845		<b>kg/m<sup>3</sup> (pcf)</b> 29 (1.8)
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.) EN/ISO 1856 (23 C, 25% compr.)	Vertical	< 20% < 10%
Compressive Creep (1000 hrs @ 23 <sup>o</sup> C)	ASTM D3575, Suffix BB	Vertical	< 10% @ 13.8 kPa (2 psi)
Compressive Deflection @ 10% @ 25% @ 50%	ASTM D3575, Suffix D	Average	<b>kPa (psi)</b> 30 (5) 48 (7) 103 (15)
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	<b>W/m<sup>o</sup>K (BTU-in/hr-ft<sup>2</sup>-°F)</b> 0.07 (0.49) 0.06 (0.42)
Water Absorption	ASTM D3575, Suffix L  ISO 2896; ASTM C272		<b>kg/m<sup>2</sup> (lb/ft<sup>2</sup>)</b> 1.5 (0.3)  < 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> 215 (31)
Tensile Elongation	ASTM D3575, Suffix T; ISO 1798	Average	50 %
Tear Strength	ASTM D3575, Suffix G	Average	<b>N/mm (lb/in)</b> 1.75 (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\* Select Anti-Static polyethylene foam is a durable, lightweight, flexible, solid extruded plank 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 Select Anti-Static polyethylene foam offers excellent strength, resistance to creep under load, vibration and shock absorbency and water resistance characteristics.

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

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

**Flammability**

ETHAFOAM Select 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 Select Anti-Static 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.

NOTICE: No freedom from any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Dow assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

Published in December 2001 – The Dow Chemical Company

The Dow Chemical Company, 200 Larkin Center, Midland, MI 48674, USA  
Dow Deutschland GmbH & Co. OHG, Industriestraße 1, D-77836 Rheinmünster, Germany



\*