



EF220 POLYETHYLENE FOAM

MATERIAL SPECIFICATION SHEET

ETHAFOAM 220 polyethylene foam is a strong, resilient, medium-density 36kg/m³ (2.3pcf), 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 17.5kPa (2.5psi).

Physical Properties	Test Method	Direction	Value
Density	ASTM D3575, Suffix W, Method B. ISO 845		Kg/m ³ (pcf) 36 (2.3)
Compression Set	ASTM D3575, Suffix B (50% compr.) EN/ISO 1856 (23° C, 25% compr.)	Vertical	< 20% < 10%
Compression Creep (1000hrs @ 23°C (73°F))	ASTM 03575, Suffix BB	Vertical	< 10% @ 17.5 kPa (2.5 psi)
Compression Deflection @ 10% @ 25% @ 50%	ASTM D3575, Suffix D	Average	kPa (psi) 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	W/m ² K(BTU-in/hr-ft ² -°F) 0.06 (0.42) 0.05 (0.37)
Water Absorption	ASTM 03575, Suffix L ISO 2896; ASTM C272		Kg/m ² (lb/ft ²) 1.5 {0.3) < 3 vol %
Buoyancy	ASTM 03575, Suffix AA		kg/m ³ (pcf) 930 (58)
Tensile Strength @ peak	ASTM 03575, Suffix T; ISO 1798	Average	kPa (psi) 220 (32)
Tensile Elongation	ASTM 03575, Suffix T; ISO 1798	Average	50%
Tear Strength	ASTM D3575, Suffix G	Average	N/mm (lb/in) 1.8 (10)



ISO 9001:2015 Q93057 ISO 14001:2015 EMS 505718

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Product Features

ETHAFOAM 220 polyethylene foam is a durable, lightweight, flexible, solid extruded plank product. As the properties listed on reverse suggest, ETHA FOAM 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 Rapid Release 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.



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