

Microlen® Marine Buoyancy Foam

A New Cross-Linked Buoyancy Foam Developed for Positive Buoyancy in Small Vessels

Microlen® closed cell foam is cross-linked, a chemical irreversible process that makes the foam inert to solvents and gasoline. Microlen® will not cause any electro chemical reaction when coming into contact with wood, steel, aluminium alloy, glass fibre laminates, paints, varnishes or adhesives.

Microlen® has high impact resistance and will not powder or crumble, making it suitable for installation without the need to seal in an outer skin. The foam is easily cut with a standard bandsaw.

Microlen® will only absorb fractional amounts of water because of its closed cell structure.

Microlen® marine buoyancy foam is produced as a block with dimensions of 2400mm x 1200mm and available in 100mm, 50mm & 25mm thick.

Specifications

TEST	UNIT	VALUE	METHOD
Density	kg/m ³	30	JIS K6767
Compressive Strength at 25% deflection	Kpa	30	JIS K676
Water Uptake after two weeks immersion: Volume	%	<0.4	ASTM D841-D843/1977
Dimensional Stability After Temp Cycling	%	Change <0.1	ASTM D841-D843/1977
Dimensional Stability Solvent Immersion	%	Change <1.6	ASTM D841-D843/1977
Burn Rate	mm/min.	<100	UL94
Buoyancy Upthrust	kg/m ³	970	TFI

Converting Upthrust Required into Cubic Metres: 1m³ of Microlen® provides 970kg of Upthrust.

For example if a vessel requires 1500kg of Upthrust: **1500kg of Upthrust Required / 970kg per m³ = 1.546m³**
 This means 1.546m³ of Microlen® is required to provide 1500kg of Upthrust. Sheet requirement can now be calculated using the formula below.

Cubic Metre Per Sheet: 25mm = 0.072m³
 50mm = 0.144m³
 100mm = 0.288m³

Working out Sheet Requirements: For example if 1 cubic metre of Microlen® is required.
 Cubic Metres Required / Cubic Metres per sheet

For example using a 100mm thick sheet = **1m³ / 0.288m³ per sheet = 3.47** sheets required.

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