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FOAM

The Marine Foam



Corecell™

M FOAM The Marine Foam

Corecell™ M-Foam has been developed to give a single product, appropriate for any Marine application.

M-Foam provides a combination of high shear strength with low density, high elongation, high temperature resistance and low resin uptake. M-Foam has high performance whether your application is slamming area or superstructure, hull or deck, using hand lamination, infusion or prepreg.

Designers, engineers or users can safely specify M-Foam knowing they have chosen a high-performance, light weight, all process compatible product. **Corecell™** M-Foam delivers an all-round package of benefits

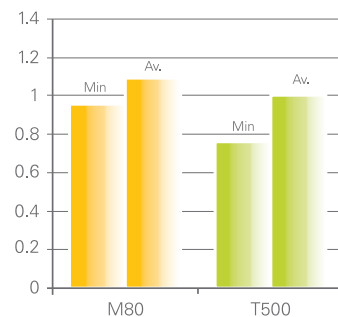
General Corecell™ Benefits

As with all **Corecell™** products, M-Foam enjoys good uniformity and fine cell size. These attributes, combined with the unique “knife-cuts” of **Corecell™** deliver a lightweight structure.

Compatibility with epoxy, polyester and vinylester resins with the benefits below, are the final piece of the jigsaw to confirm that **Corecell™** M-Foam is recommended for any Marine structure.

Shear Strength

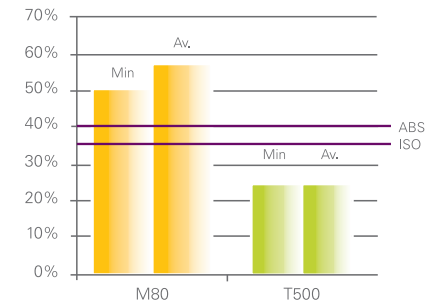
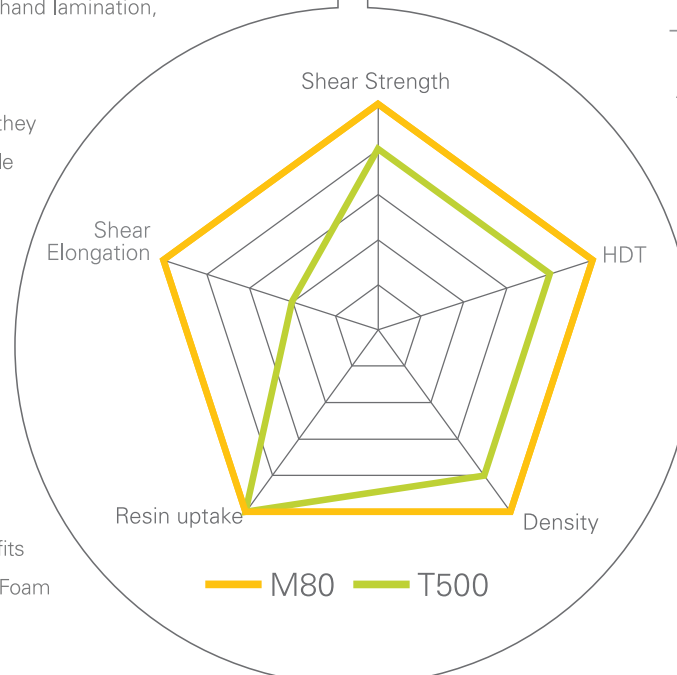
Shear load carrying capability is affected by the shear strength of the core and the core thickness. This is normally the primary driver for specification of the core in marine structures.



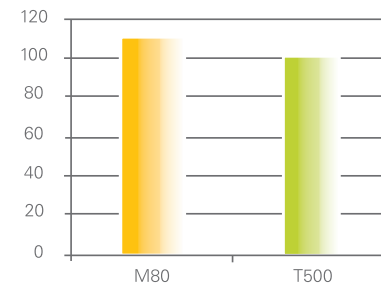
Shear Elongation

A core with a high shear strain to failure is generally better at absorbing impact and dynamic loads. This is recognised in classification society guidelines which often allow a lower safety factor on core shear stress for high elongation cores.

Classification	Shear strain criteria	Safety factor for shear strength	
		High elongation	Low elongation
ABS High Speed Craft	>40%	1.82	2.5
ISO 12215	>35%	1.54	1.82



HDT and prepreg compatibility



Corecell™ M-Foam shows a high temperature resistance and benefits from not suffering any chemical inhibition effects. A further advantage of the temperature resistance is resistance to print-through on dark-hulled vessels.