



**KUIPER**  
HOLLAND

# PRODUCT DATA SHEET



## KUIPER AIR - CORECELL™ M80 FOAM - OKOUME PLYWOOD

**DIMENSION: 244 X 122 CM**  
**DENSITY CORE M80: 85 KG/M3**  
**THICKNESS CORE: 3 - 50 MM**

- Environmental stability** - High tolerance for heat and chemical exposure
- Built in toughness** - High ductility and damage tolerance compared to cross-linked PVC and Balsa
- Fine cell size** - Resin absorption is very low, saving both weight and cost
- Superior uniformity** - Low density variation
- Eliminating outgassing** - Gurit® Corecell™ eliminates the problems of foam outgassing
- Compatibility** - Suitable for use with all polyester, vinylester and epoxy resins
- No inhibition** - Gurit® Corecell™ does not inhibit any epoxy resin curing mechanisms
- Handling** - Tough and easy to machine

Gurit® Corecell™ M has been developed to deliver one product for all Marine applications. It provides a combination of high shear strength with low density, high elongation, high temperature resistance and low resin uptake. Gurit® Corecell™ M is the perfect choice whether your application is slamming area or superstructure, hull or deck, using hand lamination, infusion or prepreg.

If looking for reliable processing, Gurit® Corecell™ M delivers through the benefits recognised in all Gurit® Corecell™ products of fine cell size and unique knife-cuts giving low resin uptake in infusion processes. For prepreg, Gurit® Corecell™ M offers high temperature resistance to allow shorter cure cycles and the confidence to process without fear of inhibition of prepreg catalysis. Where static properties are important, Gurit® Corecell™ M delivers high shear strength at a low density. Where dynamic performance is crucial, the high elongation delivers higher useful properties and the toughness to give impact resistance and superior fatigue performance.

Gurit® Corecell™  
THE MARINE FOAM



Type	Test Method	Units	M60	M80	M100
Nominal Density		kg/m <sup>3</sup>	65	85	107.5
		lb/ft <sup>3</sup>	4.1	5.3	6.7
Density Range		kg/m <sup>3</sup>	61-69	81-89	100-115
		lb/ft <sup>3</sup>	3.8-4.3	5.1-5.6	6.2-7.2
Compression Strength	ASTM D1621	MPa	0.55	1.02	1.55
		psi	80	148	225
Compressive Modulus	ASTM D1621-1973	MPa	45	71	107
		psi	6480	10340	15570
	ASTM D1621-2004	MPa	31	52	76
		psi	4530	7610	11080
Shear Strength	ASTM C273	MPa	0.68	1.09	1.45
		psi	98	158	211
Shear Modulus	ASTM C273	MPa	20	29	41
		psi	2900	4240	5920
Shear Elongation at break	ASTM C273	%	53%	58%	52%
Tensile Strength	ASTM D1623	MPa	0.81	1.62	2.11
		psi	118	234	306
Tensile Modulus	ASTM D1623	MPa	44	72	109
		psi	6440	10420	15880
Thermal Conductivity	ASTM C518	W/mK	0.03	0.04	0.04
HDT	DIN 53424	°C	110	110	110
		°F	230	230	230