



BOEDEKER PLASTICS, INC.



XTREMEEPP™ Buoyancy Composites

Provide Lift in a Wide Range of Subsea Depths

From Surface to Deep Water Applications



About

XTREMEEPP™ Buoyancy Composites are engineered syntactic composites that are available in various densities for a wide range of applications & depths. Available in off the shelf blocks or finished parts.

MZ, BZ, AZ & HZ Grades

Our highest performance grades which are named after the Mesopelagic (MZ), Bathypelagic (BZ), Abyssopelagic (AZ), and Hadal (HZ) aquatic zones they are engineered for. These grades offer the lowest density materials for depths ranging from surface to 10,000 meters.

SF Grade

Is a cost-effective option for applications where the absolute lowest density is not critical in depths from surface to 6,000 meters.

MacroFoam Grade

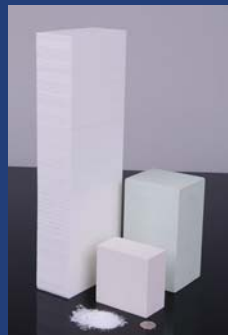
Engineered with macro-spheres offering the lowest density in depths from shallow to 1,600 meters.

Key Properties

- Operational Depths from Surface to 10,000 meters
- Lowest Density Available in the Entire Industry
- High Compressive and Hydrostatic Strength
- Corrosion Resistant & Low Water Absorption

Availability

- MZ, BZ, AZ & HZ
4" & 6" x 12" x 24"
- SF Grade
6" x 12" x 24"
- Macrofoam Grade
4" to 8" x 24" x 60"



All grades can be cut to size or bonded for larger sizes or provided as a finished part to your specifications.

CONTACT / VISIT US    

904 WEST 6TH STREET, SHINER, TX 77984 | 800.444.3485 | WWW.BOEDEKER.COM | RFQ@BOEDEKER.COM

XTREMEEPP™ Buoyancy Composites Typical Properties

Product	Density	Service		Weight Gain	Hydrostatic Crush	Compressive	
		Pressure	Depth			Strength	Modulus
Grade	lb/ft³ (g/cc)	psi (Bar)	feet (meters)	24 hrs @ depth	psi (Bar)	psi (Mpa)	ksi (Gpa)
MZ - 24	24 ± 2	1,450	3,280	1% Max	3,800	3,200	145
	(0.38 ± .03)	100	1,000		262	22.1	1
MZ - 38	38 ± 2	1,450	3,280	1% Max	6,000	4,320	195
	(0.61 ± .03)	100	1,000		414	29.8	1.34
BZ - 24	24 ± 2	3,000	6,560	1% Max	4,500	3,500	163
	(0.39 ± .03)	204	2,000		310	24.1	1.12
BZ - 26	26 ± 2	4,330	9,840	1% Max	6,600	3,950	180
	(0.42 ± .03)	296	3,000		450	27.2	1.24
BZ - 28	28 ± 2	5,530	12,460	1% Max	8,000	4,880	210
	(0.45 ± .03)	379	3,800		550	33.6	1.45
AZ - 29	29 ± 2	5,775	13,100	1% Max	8,700	7,900	290
	(0.46 ± .03)	398	4,000		600	54.4	2
AZ - 31	31 ± 2	7,300	16,400	1% Max	13,000	9,000	328
	(0.50 ± .03)	503	5,000		896	62	2.26
AZ - 34	34 ± 2	9,000	19,680	1% Max	15,000	9,200	400
	(0.55 ± .03)	620	6,000		793	63.4	2.75
HZ - 34	34 ± 2	10,150	23,000	1% Max	> 15,250	12,200	515
	(0.55 ± .03)	700	7,000		> 1,050	84.1	3.55
HZ - 42	42 ± 2	18,000	40,900	1% Max	> 24,000	16,000	650
	(0.67 ± .03)	1,241	12,460		> 1,650	-110	4.48
HZ - 45	45 ± 2	18,000	40,900	1% Max	> 24,000	17,000	675
	(0.72 ± .03)	1,241	12,460		> 1,650	-118	4.65

Product	Density	Depth Rating	Hydrostatic	24hr Hydrostatic Performance @1.1 x depth rating	Uniaxial Compressive		Flex	
			Crush		Strength	Modulus	Strength	Modulus
Grade	lb/ft³ (kg/m³)	ft (m)	psi (Bar)	%weight gain	psi (MPa)	ksi (GPa)	psi (MPa)	ksi (GPa)
SF1500	35.0 (560)	4,920 (1500)	4,770	< 1%	2,685	115	4,390	412
			329		19.8	0.79	30.3	2.84
SF2000	36.0 (580)	6,560 (2000)	5,425	< 1%	3,150	138	4,525	419
			374		21.7	0.95	31.2	2.89
SF3000	39.0 (630)	9,840 (3000)	7,750	< 1%	4,320	261	4,920	441
			534		29.8	1.8	33.9	3.04
SF4000	43.0 (690)	13,120 (4000)	9,880	< 1%	5,275	310	5,455	469
			681		36.4	2.14	37.6	3.23
SF6000	46.0 (735)	19,680 (6000)	13,125	< 1%	6,700	498	5,860	490
			905		46.2	3.43	40.4	3.38

Product	Color	Density	Depth Rating	Hydrostatic	Compressive	Compressive	Shear Strength
				Crush	Strength	Modulus	
		lb/ft³ (g/cc)	feet (meters)	feet (meters)	psi (Mpa)	ksi (Gpa)	psi (Mpa)
MacroFoam - 18	Natural	18 ± 2.0	1,000	1,485	1,200	65	625
		(0.29 ± .03)	300	450	8.27	0.448	4.31
MacroFoam - 20	White	20 ± 1.5	1,650	2,485	1,700	78	750
		(0.32 ± .02)	500	760	11.72	0.537	5.17
MacroFoam - 22	Yellow	22 ± 1.5	2,500	3,725	1,900	78	750
		(0.35 ± .02)	750	1,135	13.09	0.537	5.17
MacroFoam - 24	Red	24 ± 1.5	3,280	4,965	2,100	82	900
		(0.39 ± .02)	1,000	1,515	14.47	0.565	6.25
MacroFoam - 26	Tan	26 ± 1.5	4,100	6,200	2,600	92	1,075
		(0.42 ± .02)	1,250	1,895	17.92	0.634	7.41
MacroFoam - 28	Green	28 ± 1.5	4,920	7,450	3,200	100	1,300
		(0.45 ± .02)	1,500	2,270	22.06	0.689	8.96
MacroFoam - 30	Blue	30 ± 1.5	6,560	9,930	4,700	124	1,600
		(0.48 ± .02)	2,000	3,025	32.41	0.855	11.03

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