

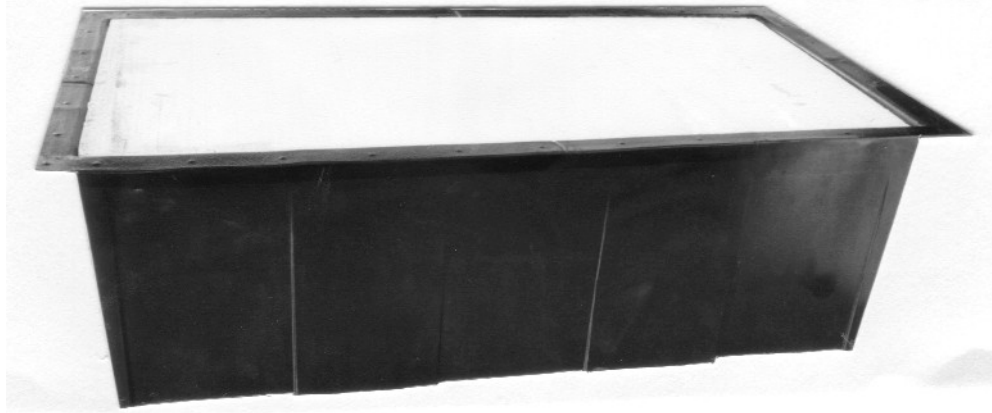
---

---

# Foam Core for Pontoons

---

---



---

## **POLYSTYRENE (EPS) FOAM CORE FOR CROSS-LINKED POLYETHYLENE PONTOONS**

The most popular and versatile foam product being used as flotation material is expanded polystyrene. We are knowledgeable in the area of foam products, and have no problem recommending EPS as a foam core for use with our pontoons. We must, however, point out some variables in the business of EPS molding.

It is difficult for most people to recognize a block of foam that is molded to high quality standards from one that is of lower standards. Most imperfections exist within the block. To be sure that you are getting what you require for this application, you must do two things. First, deal with a reputable manufacturer with a history of supplying product to this industry. Second, give that manufacturer a well-defined set of manufacturing parameters. The three critical areas of concern in this application are density, water absorption, and the allowable quantity of remanufactured material (referred to as grind).

<b>FOAM CORE ITEM NO.</b>	<b>CORRESPONDING PONTOON MODEL NO.</b>
01-36	H3668A
01-37	H3668B
01-38	H3668C
01-39	H4860A
01-40	H4872A
01-41	H4872B
01-42	H4872C
01-43	H4896A
01-44	H4896B
01-45	H4896C



# Foam Core for Pontoons

The following table is provided for your information:

**FEDERAL SPECIFICATION NO. C-578-85, TYPES I, II, VIII AND IX**

(SUPERSEDING HH-I-524C, TYPES I, II, AND III

TYPE I = .9 PCF MINIMUM DENSITY. TYPE II = 1.35 PCF MINIMUM DENSITY, TYPE VIII = 1.15 PCF DENSITY, TYPE IX = 1.8 PCF MINIMUM DENSITY.

**EPS PHYSICAL AND THERMAL PROPERTIES**

PROPERTY	UNITS	ASTM TEST	DENSITY (PCF)			
			1.0	1.25	1.5	2.0
Thermal Conductivity K Factor @25dF @40dF @75dF	BTU/(hr)(sq. ft)(F. in)	C177 or C518	0.23 0.24 0.26	0.22 0.235 0.266	0.21 0.22 0.24	0.20 0.21 0.23
Thermal Resistance Values ( R ) @25dF @40dF @75dF	Per Inch Thickness		4.35 4.17 3.86	4.54 4.25 3.92	4.76 4.55 4.17	5.00 4.76 4.35
Strength Properties Compression 10% deformation	PSI	D1621	10-14	13-18	15-21	25-33
Flexural	PSI	C203	26-30	32-38	40-50	55-75
Tensile	PSI	C1623	18-20	17-21	18-22	23-27
Shear	PSI	C732	18-22	23-26	28-32	33-37
Shear Modulus	PSI	--	280-320	370-410	460-500	600-640
Modulus of Elasticity	PSI	--	180-220	250-310	320-360	480-500
Moisture Resistance WVT	Perm-in	C356	1.2-3.0	1.1-2.8	0.9-2.5	0.6-1.5
Absorption (vol.)	%	C272	less than 2.5	2.5	2.0	1.0
Capillarity	--	--	None	None	None	None
Coefficient of Thermal Expansion	In/(in.)(d F)	D696	.000035	.000035	.000035	.000035
Maximum Use Temperatures Continuous Exposure	Degree F		167d	167d	167d	167d
Intermittent Exposure	Degree F		180d	180d	180d	180d
Fungus & Bacterial Resistance		FHA Test	Will not support bacterial or fungus			
Buoyancy-Flotational	Lbs./cu. Ft.		60 lbs/cubic ft.			



**HENDERSON MARINE SUPPLY, INC.**

800-523-1586 [www.hendersonmarine.com](http://www.hendersonmarine.com)

Specifications subject to change without notice. Not responsible for rust.

Page 01-3a

Last Updated: 9/14/2007 8:38:00 PM