

FOAM PHYSICAL PROPERTIES (ASTM STANDARDS)	EXPANDED POLYSTYRENE FOAM								
PROPERTY	TEST METHOD	UNITS							
DENSITY		PCF	1.0	1.25	1.5	2.0			
COMPRESSION STRENGTH 10% STRAIN	ASTM-D1621	PSI	14-Oct	13-18	15-21	25-33			
FLEXUAL STRENGTH	C203	PSI	25-30	32-38	40-50	55-75			
TENSILE STRENGTH AT BREAK	ASTM-D412	PSI	16-20	17-21	18-22	23-27			
SHEAR STRENGTH	D732	PSI	18-22	23-25	26-32	33-37			
SHEAR MODULUS		PSI	280-320	370-410	460-500	600-640			
WATER ABSORPTION (VOLUME	C272	%	< 2.5	< 2.5	< 2.0	< 2.0			
THERMAL RESISTIVITY (R) PER INCH	@ 40	R	4.17	4.25	4.55	4.76			
MAX. SERVICE TEMPERATURE	LONG TERM	F	167	167	167	167			
	INTERMITTENT		180	180	180	180			
BUOYANCY	1 CUBIC FT.	LBS	61.2	60.6	59.5	59			
						0.5			