




Hawaii Construction Foam Geofoam is a cellular plastic material that is strong, but has very low density (1% of traditional earth materials). It is manufactured in block form and meets ASTM D6817, "Standard Specification for Rigid, Cellular Polystyrene Geofoam." Hawaii Construction Foam Geofoam is available in a range of Types to provide control of structural integrity and cost effectiveness.

The information given is deemed to be timely, accurate, and reliable for the use of Hawaii Construction Foam Geofoam. Each project using Hawaii Construction Foam Geofoam should be designed by a professional engineer. The engineer or project specifications should be consulted to determine the ASTM D6817 Type required for your project loading conditions.

PRODUCT		 HAWAII CONSTRUCTION FOAM						
		12	15	19	22	29	39	46
Density <sup>1</sup> , min.	lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	0.70 (11.2)	0.90 (14.4)	1.15 (18.4)	1.35 (21.6)	1.80 (28.8)	2.40 (38.4)	2.85 (45.7)
Compressive Resistance <sup>1,2</sup> @ 1% deformation, min.	psi psf (kPa)	2.2 320 (15)	3.6 520 (25)	5.8 840 (40)	7.3 1050 (50)	10.9 1570 (75)	15.0 2160 (103)	18.6 2680 (128)
Elastic Modulus, min	psi (kPa)	220 (1500)	360 (2500)	580 (4000)	730 (5000)	1090 (7500)	1500 (10300)	1860 (12800)
Flexural Strength <sup>1</sup> , min.	psi (kPa)	10.0 (69)	25.0 (172)	30.0 (207)	35.0 (240)	50.0 (345)	60.0 (414)	75.0 (517)
Water Absorption by total immersion, max.,	vol. %	4.0	4.0	3.0	3.0	2.0	2.0	2.0
Oxygen Index <sup>1</sup> , min.	vol. %	24	24	24	24	24	24	24
Buoyancy Force	lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	61.7 (990)	61.5 (980)	61.3 (980)	61.1 (980)	60.6 (970)	60.0 (960)	59.5 (950)

<sup>1</sup> See ASTM D6817 Standard for test methods and complete information.

<sup>2</sup> Combined live and dead load stresses should not exceed the compressive resistance at 1% deformation.