



Sign-Foam4 18 lbs.			
Property	English	Metric	Test Method
Density (pcf) (kg/m³)	18.0	288	ASTM D-1622
Compressive Strength (psi) (kPa)			ASTM-D-1621
Parallel to Rise			
@ 75°F	792	5461	
@ 160° F	549	3785	
Perpendicular to Rise			
@ 75°F	786	5419	
@ 160° F	561	3868	
Compressive Modulus (psi) (kPa)			ASTM-D-1621
Parallel to Rise			
@ 75°F	25920	178718	
@ 160°	18394	126827	
Perpendicular to Rise			
@ 75°F	23671	163212	
@ 160° F	17377	119814	
Shear Strength (psi) (kPa)			ASTM C-273 Compression Shear
Rise Parallel to Specimen Thick.	249	1717	
Shear Modulus (psi) (kPa)			ASTM C-273 Compression Shear
Rise Parallel to Specimen Thick.	2463	16982	
Flexural Strength (psi) (kPa)			ASTM D-790 Method 1-A
Rise Parallel to Test Span	952	6564	
Rise Parallel to Beam Thick.	958	6605	
Flexural Modulus (psi) (kPa)			ASTM D-790 Method 1-A
Rise Parallel to Test Span	32544	224391	
Rise Parallel to Beam Thick.	32684	225356	
Tensile Strength (psi) (kPa)			ASTM D-1623 Type A Specimens
Perpendicular to Rise	670	4616	
Tensile Modulus (psi) (kPa)			
Perpendicular to Rise	13765	94910	
Thermal Conductivity (BTU · in/ft² · °F · h) (W/mK)	0.3288		ASTM C-518 at 75°F (24°C) mean temp.
CTE: (in/in/°F) (K⁻¹)	2.95 x 10 ⁻⁵	5.3 x 10 ⁻⁵	From -30 to +160°F, GP Method
Glass Transition, Tg (°F) (°C)	233	112	ASTM E-1824
Water Absorption Volume (%)	0.002		ASTM D 2842-01
Shore "A"	93		
Shore "D"	36		
Tumbling Friability (%)	0.2		ASTM C-421 (20 minutes @ 60 rpm)
Fire Safety	Pass	Pass	<15s extinguish time, <6 in burn length *via test method shown below

Values shown are average values determined from laboratory tests

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*FAR 25.853 (A) App. F (a)(1)(i) & (ii) tested vertically on 1/2" thick specimen using 12- and 60- second ignition with a Bunsen burner

**Heat Release and Smoke Density testing were performed by an outside laboratory.

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