



LAST-A-FOAM® FR-3706 RIGID POLYURETHANE FOAM			
Property	English	Metric	Test Method
Density (pcf) (kg/m <sup>3</sup> )	6.0	96	ASTM D-1622
Compressive Strength (psi) (kPa)			ASTM D-1621
Parallel to Rise			
-65°F	239	1648	
75°F	146	1007	
200°F	104	717	
250°F	77	531	
Perpendicular to Rise			
-65°F	233	1607	
75°F	150	1034	
200°F	97	669	
250°F	77	531	
Compressive Modulus (psi) (kPa)			ASTM D-1621
Parallel to Rise			
-65°F	5520	38060	
75°F	4488	30945	
200°F	3396	23415	
250°F	2701	18623	
Perpendicular to Rise			
-65°F	5143	35461	
75°F	4216	29069	
200°F	3129	21574	
250°F	2519	17369	
Tensile Strength (psi) (kPa)			ASTM D-1623 Type A Specimens
Parallel to Rise	165	1138	
Perpendicular to Rise	160	1103	
Flexural Strength (psi) (kPa)			ASTM D-790 Method 1-A
Rise Parallel to Test Span	207	1427	
Rise Parallel to Beam Thickness	220	1517	
Flexural Modulus (psi) (kPa)			ASTM D-790 Method 1-A
Rise Parallel to Test Span	6176	42584	
Rise Parallel to Beam Thickness	7277	50175	
Coefficient of Thermal Expansion (in/in-°F) (m/m-°K)	35 x 10 <sup>-6</sup>	61 x 10 <sup>-6</sup>	From -50 to +200°F, GP Method
Closed Cell Content (%)	95.6	95.6	ASTM D-6226
Thermal Conductivity (BTU*in/ft <sup>2</sup> *F*h) (W/m**K)	0.226	0.033	ASTM C-518 at 75°F (24°C) mean temp.
Poisson's Ratio	~ 0.3	~ 0.3	Literature (Gibson & Ashby)
Hardness, Shore-D (cut foam surface)	11.1	11.1	ASTM D-2240
Tumbling Friability: Weight Loss (%)	13.4	13.4	ASTM C-421 (20 minutes @ 60 rpm)
Water Absorption (lbs/ft <sup>2</sup> ) (kg/m <sup>2</sup> )	0.017	.084	ASTM D-2842
Specific Heat @25°C (BTU/lb-°F) (J/g°C)	0.353	1.477	ASTM E-1269
Heat of Combustion (BTU/lb) (MJ/kg)	11706	27.17	ASTM D-240
Glass Transition, Tg (°F) (°C)	270	132	ASTM E-1824
Fire Safety	*S/E	*S/E	*Self-extinguishing 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

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