



LAST-A-FOAM® R-9807 RIGID POLYURETHANE FOAM			
Property	English	Metric	Test Method
Density (pcf) (kg/m <sup>3</sup> )	7.0	112	ASTM D-1622
Compressive Strength (psi) (kPa)			ASTM-D-1621
Parallel to Rise @ 75°F	205	1410	
Perpendicular to Rise @ 75°F	216	1486	
Compressive Modulus (psi) (kPa)			ASTM-D-1621
Parallel to Rise @ 75°F	5312	36626	
Perpendicular to Rise @ 75°F	5371	37033	
Tensile Strength (psi) (kPa)			ASTM D-1623 Type A Specimens
Parallel to Rise	256	1765	
Tensile Modulus (psi) (kPa)			ASTM D-1623 Type A specimens
Parallel to Rise	3263	22499	
Shear Strength (psi) (kPa)			ASTM C-273 Compression Shear
Rise Parallel to Specimen Length	165	1140	
Rise Parallel to Specimen Thick.	180	1238	
Shear Modulus (psi) (kPa)			ASTM C-273 Compression Shear
Rise Parallel to Specimen Length	2060	14204	
Rise Parallel to Specimen Thick.	1993	13742	
Flexural Strength (psi) (kPa)			ASTM D-790 Method 1-A
Rise Parallel to Test Span	305	2101	
Rise Parallel to Beam Thick.	311	2142	
Flexural Modulus (psi) (kPa)			ASTM D-790 Method 1-A
Rise Parallel to Test Span	7339	50602	
Rise Parallel to Beam Thick.	7324	50499	
Thermal Conductivity "k": (BTU*in/ft <sup>2</sup> *°F*h) [(W/m*K)]	0.274	0.039	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)	12.4	12.4	ASTM D-2240
Tumbling Friability - weight loss (%)	6.70	6.70	ASTM C-421 (20 minutes @ 60 rpm)
Water Absorption (lbs/ft <sup>2</sup> ) (kg/m <sup>2</sup> ):	0.000	0.000	ASTM D-2842
CTE: (in/in/°F) (K <sup>-1</sup> )	3.10E-05	5.59E-05	From -50 to +200°F, GP Method

Values shown are average values determined from laboratory tests

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