



LAST-A-FOAM® TR-15 RIGID POLYURETHANE FOAM			
Property	English	Metric	Test Method
Density (pcf) (kg/m³)	15.0	240	ASTM D-1623
Compressive Strength (psi) (kPa)			ASTM-D-1621
Parallel to Rise			
@ -60° F	955	6587	
@ 75°F	623	4296	
@ 160°F	470	3240	
Perpendicular to Rise			
@ -60° F	925	6377	
@ 75°F	627	4325	
@ 160°F	444	3061	
Compressive Modulus (psi) (kPa)			ASTM-D-1621
Parallel to Rise			
@ -60° F	21524	148407	
@ 75°F	22132	152598	
@ 160°F	16028	110515	
Perpendicular to Rise			
@ -60° F	18967	130776	
@ 75°F	17240	118872	
@ 160°F	13049	89971	
Tensile Strength (psi) (kPa)			ASTM D-1623 Type A Specimens
Parallel to Rise	514	3541	
Perpendicular to Rise	479	3304	
Tensile Modulus (psi) (kPa)			ASTM D-1623 Type A specimens
Parallel to Rise	31206	215166	
Perpendicular to Rise	23477	161873	
Shear Strength (psi) (kPa)			ASTM C-273 Compression Shear
Rise Parallel to Specimen Width	419	2892	
Rise Parallel to Specimen Thick.	421	2905	
Shear Modulus (psi) (kPa)			ASTM C-273 Compression Shear
Rise Parallel to Specimen Width	6809	46948	
Rise Parallel to Specimen Thick.	6874	47395	
Flexural Strength (psi) (kPa)			ASTM D-790 Method 1-A
Rise Parallel to Test Span	690	4758	
Rise Parallel to Beam Thick.	677	4665	
Flexural Modulus (psi) (kPa)			ASTM D-790 Method 1-A
Rise Parallel to Test Span	24616	169727	
Rise Parallel to Beam Thick.	23620	162860	
CTE: (in/in/°F) (K⁻¹)	~3.2 x 10 ⁻⁵	~5.8 x 10 ⁻⁵	From -20 to +160°F
Closed Cell Content (%) :	96.9	96.9	ASTM D-2856 Procedure B
Thermal Conductivity "k": (BTU*in/ft ² *F*h) [(W/m*K)]	0.321	0.046	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)	26.1	26.1	ASTM D-2240
Tumbling Friability - weight loss (%)	4.2	4.2	ASTM C-421 (20 minutes @ 60 rpm)
Glass Transition, Tg (°F) (°C)	256	124	TMA
Fire Safety	*S/E	*S/E	*Self-extinguishing via test method shown below

Values shown are average values determined from laboratory tests

10/08/2003

*UL94, Section 7, 6-18-91; <40 mm/in burn rate

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