



LAST-A-FOAM® TR-24 RIGID POLYURETHANE FOAM			
Property	English	Metric	Test Method
<b>Density (pcf) (kg/m<sup>3</sup>)</b>	<b>24.0</b>	384	ASTM D-1623
<b>Compressive Strength (psi) (kPa)</b>			ASTM-D-1621
Parallel to Rise			
@ -60° F	2368	16327	
@ 75°F	1479	10195	
@ 160°F	1130	7790	
Perpendicular to Rise			
@ -60° F	2364	16303	
@ 75°F	1484	10231	
@ 160°F	1090	7518	
<b>Compressive Modulus (psi) (kPa)</b>			ASTM-D-1621
Parallel to Rise			
@ -60° F	47028	324255	
@ 75°F	48725	335960	
@ 160°F	34609	238632	
Perpendicular to Rise			
@ -60° F	50052	345108	
@ 75°F	41228	284264	
@ 160°F	34654	238938	
<b>Tensile Strength (psi) (kPa)</b>			ASTM D-1623 Type A Specimens
Parallel to Rise	1036	7144	
Perpendicular to Rise	921	6351	
<b>Shear Strength (psi) (kPa)</b>			ASTM C-273 Compression Shear
Rise Parallel to Specimen Width	885	6104	
Rise Parallel to Specimen Thick.	890	6139	
<b>Shear Modulus (psi) (kPa)</b>			ASTM C-273 Compression Shear
Rise Parallel to Specimen Width	12162	83858	
Rise Parallel to Specimen Thick.	13542	93371	
<b>Flexural Strength (psi) (kPa)</b>			ASTM D-790 Method 1-A
Rise Parallel to Test Span	1316	9071	
Rise Parallel to Beam Thick.	1334	9199	
<b>Flexural Modulus (psi) (kPa)</b>			ASTM D-790 Method 1-A
Rise Parallel to Test Span	52195	359882	
Rise Parallel to Beam Thick.	45871	316280	
<b>CTE: (in/in/°F) (K<sup>-1</sup>)</b>	~3.2 x 10 <sup>-5</sup>	~5.8 x 10 <sup>-5</sup>	From -20 to +160°F
<b>Closed Cell Content (%) :</b>	97.5	97.5	ASTM D-2856 Procedure B
<b>Thermal Conductivity "k":</b> (BTU*in/ft <sup>2</sup> *F*h) [(W/m*K)]	0.453	0.065	ASTM C-518 at 75°F (24°C) mean temp.
<b>Poisson's Ratio:</b>	~ 0.3	~ 0.3	Literature (Gibson & Ashby)
<b>Hardness, Shore-D (cut foam surface)</b>	47.6	47.6	ASTM D-2240
<b>Tumbling Friability - weight loss (%)</b>	.9	.9	ASTM C-421 (20 minutes @ 60 rpm)
<b>Glass Transition, Tg (°F) (°C)</b>	256	124	TMA
<b>Fire Safety</b>	*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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