GENERALPLASTICS MANUFACTURING COMPANY

LAST-A-FOAM® TR-24 RIGID POLYURETHANE FOAM			
Property	**English**	**Metric**	**Test Method**
Density (pcf) (kg/m^3)	**24.0**	384	ASTM D-1623
Compressive Strength (psi) (kPa)			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	
Compressive Modulus (psi) (kPa)			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	
Tensile Strength (psi) (kPa)			ASTM D-1623 Type A Specimens
Parallel to Rise	1036	7144	
Perpendicular to Rise	921	6351	
Shear Strength (psi) (kPa)			ASTM C-273 Compression Shear
Rise Parallel to Specimen Width	885	6104	
Rise Parallel to Specimen Thick.	890	6139	
Shear Modulus (psi) (kPa)			ASTM C-273 Compression Shear
Rise Parallel to Specimen Width	12162	83858	
Rise Parallel to Specimen Thick.	13542	93371	
Flexural Strength (psi) (kPa)			ASTM D-790 Method 1-A
Rise Parallel to Test Span	1316	9071	
Rise Parallel to Beam Thick.	1334	9199	
Flexural Modulus (psi) (kPa)			ASTM D-790 Method 1-A
Rise Parallel to Test Span	52195	359882	
Rise Parallel to Beam Thick.	45871	316280	
CTE: (in/in/°F) (K^-1)	~3.2 x 10^-5	~5.8 x 10^-5	From -20 to +160°F
Closed Cell Content (%) :	97.5	97.5	ASTM D-2856 Procedure B
Thermal Conductivity "k":			ASTM C-518 at 75°F (24°C) mean temp.
(BTU*in/ft^2*°F*h) [(W/m*K)]	0.453	0.065	
Poisson's Ratio:	~ 0.3	~ 0.3	Literature (Gibson & Ashby)
Hardness, Shore-D (cut foam surface)	47.6	47.6	ASTM D-2240
Tumbling Friability - weight loss (%)	.9	.9	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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