



LAST-A-FOAM® FR-4300 RIGID POLYURETHANE FOAM (English Units)

Property	Test Method	FR-4305	FR-4310	FR-4315
Density (lb/ft ³)	ASTM D-1622	5	10	15
Compressive Strength (psi)				
Parallel to Rise				
75°F	ASTM-D-1621	100	300	560
160°F		70	210	390
Perpendicular to Rise				
75°F	ASTM-D-1621	40	230	600
160°F		30	160	420
Compressive Modulus (psi)				
Parallel to Rise				
75°F	ASTM-D-1621	4,050	12,100	19,400
160°F		2,950	9,550	14,200
Perpendicular to Rise				
75°F	ASTM-D-1621	1,150	6,750	16,800
160°F		950	5,400	14,100
Tensile Strength (psi)				
Parallel to Rise	ASTM D-1623 Type A Specimens	150	400	650
Perpendicular to Rise		100	320	640
Flexural Strength (psi)				
Rise Parallel to Test Span	ASTM D-790 Method 1-A	70	340	830
Rise Parallel to Beam Thick.		70	340	910
Flexural Modulus (psi)				
Rise Parallel to Test Span	ASTM D-790 Method 1-A	1,650	8,400	26,200
Rise Parallel to Beam Thick.		1,650	8,400	28,700
Thermal Conductivity: (BTU*in/ft²*°F*h)	ASTM C-518 at 75°F (24°C) mean temp.	0.218	0.268	0.318
Poisson's Ratio:	Literature (Gibson & Ashby)	~ 0.3		
Hardness, Shore-D (cut foam surface)	ASTM D-2240	8.1	16.5	24.9
Water Absorption (lb/ft²)	ASTM D-2842	0.005	0.005	0.004
Glass Transition Temperature, Tg (°F)	ASTM E-1824	220		
Max Use Temperature (°F)		200		
Fire Safety	Self-extinguishing via 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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This data is subject to revision and changes due to development of and changes to the material. The data is derived from tests and historical usage. The data is averaged data and should be treated as such. These values do not constitute a sales specification. Calculations should be verified by actual tests. The data is furnished without liability for the company and does not constitute a warranty or representation in respect to the material or its use. The company reserves the right to release new data sheets in replacement.

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