



LAST-A-FOAM® FR-6700 RIGID POLYURETHANE FOAM (English Units)

Property	Test Method	FR-6710	FR-6712	FR-6715	FR-6718	FR-6720	FR-6725
Density (lbs/ft ³)	ASTM D-1622	10	12	15	18	20	25
Compressive Strength (psi)							
Parallel to Rise							
-65°F	ASTM-D-1621	560	840	1,350	1,550	2,150	3,100
75°F		350	530	850	1,040	1,400	2,030
200°F		220	330	510	610	800	1,130
250°F		160	230	340	420	510	690
Perpendicular to Rise							
-65°F	ASTM-D-1621	520	770	1,280	1,550	2,140	3,110
75°F		330	510	840	1,050	1,390	2,030
200°F		210	330	510	630	810	1,130
250°F		150	225	340	440	540	760
Compressive Modulus (psi)							
Parallel to Rise							
-65°F	ASTM-D-1621	12,900	17,600	26,300	29,900	40,800	58,100
75°F		10,000	15,300	23,400	30,000	36,800	51,300
200°F		6,500	9,700	15,400	18,200	24,900	35,900
250°F		5,400	7,850	11,400	14,400	17,400	23,800
Perpendicular to Rise							
-65°F	ASTM-D-1621	10,800	15,300	24,600	29,700	40,200	58,000
75°F		8,800	13,900	22,000	28,600	35,400	49,900
200°F		6,000	9,700	15,500	18,900	24,100	35,800
250°F		5,100	7,450	11,200	14,300	17,400	24,100
Tensile Strength (psi)							
Parallel to Rise	ASTM D-1623 Type A Specimens	280	350	520	630	800	1,110
Perpendicular to Rise		250	330	500	600	800	1,130
Shear Strength (psi)							
Parallel to Rise	ASTM C-273 in Compression *Modified sample size = 0.25" x 1" x 3"	225	315	470	600	730	1,000
Shear Modulus (psi)							
Parallel to Rise	ASTM C-273 in Compression *Modified sample size = 0.25" x 1" x 3"	10,900	14,500	19,500	25,200	27,700	35,600
Flexural Strength (psi)							
Rise Parallel to Test Span	ASTM D-790 Method 1-A	390	550	800	930	1,220	1,700
Rise Parallel to Beam Thick.		385	570	815	990	1,220	1,650
Flexural Modulus (psi)							
Rise Parallel to Test Span	ASTM D-790 Method 1-A	12,100	18,900	27,700	34,900	42,400	57,300
Rise Parallel to Beam Thick.		11,800	19,100	28,200	35,700	43,300	58,700
Hardness, Shore-D (cut foam surface)	ASTM D-2240	16.7	20.5	26.1	31.8	35.6	45.0
Water Absorption (lb/ft ²)	ASTM D-2842	0.049	0.043	0.036	0.028	0.023	0.010
Thermal Conductivity: (BTU-in/ft ² ·°F·h)	ASTM C-518 at 75°F (24°C) mean temp.	0.212	0.246	0.285	0.324	0.349	0.414
Specific Heat @77°F (BTU/lb·°F)	ASTM E-1269	0.376					
Heat of Combustion (BTU/lb)	ASTM D-240	10,900					
Coefficient of Thermal Expansion: (in/in·°F)	From -50 to +200°F, GP Method	35 x 10 ⁻⁶					
Poisson's Ratio:	Literature (Gibson & Ashby)	~ 0.3					
Glass Transition Temperature, Tg (°F)	ASTM E-1824	275					
Max Use Temperature (°F)		260					
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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