GENERALPLASTICS MANUFACTURING COMPANY

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
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						

10/14/2022

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