



LAST-A-FOAM® R-9300 RIGID POLYURETHANE FOAM (English Units)

Property	Test Method	R-9320	R-9325	R-9330	R-9335	R-9340	R-9340HP
Density (lbs/ft <sup>3</sup> )	ASTM D-1622	20	25	30	35	40	40
<b>Compressive Strength (psi)</b>							
Parallel to Rise, Strength @2% Deflection*							
75°F	ASTM-D-1621	350	500	1,000	1,500	1,800	2,100
Parallel to Rise, Strength @10% Deflection							
75°F	ASTM-D-1621	1,050	1,764	2,371	3,341	4,220	4,220
<b>Compressive Modulus (psi)</b>							
Parallel to Rise @10% Deflection							
75°F	ASTM-D-1621	37,300	61,400	90,500	99,500	114,000	114,000
200°F		19,800	32,600	34,900	55,000	55,000	55,000
Perpendicular to Rise @10% Deflection							
75°F	ASTM-D-1621	28,200	47,200	63,200	91,000	116,000	116,000
200°F		15,900	25,000	33,200	42,500	52,000	52,000
<b>Tensile Strength (psi)</b>							
Parallel to Rise	ASTM D-1623 Type A Specimens	750	1,100	1,400	1,900	2,300	2,300
Perpendicular to Rise		710	1,050	1,260	1,900	2,500	2,500
<b>Shear Strength (psi)</b>							
Parallel to Rise	ASTM C-273 in Compression *Modified sample size = 0.25" x 1" x 3"	625	950	1,275	1,550	1,725	1,725
<b>Shear Modulus (psi)</b>							
Parallel to Rise	ASTM C-273 in Compression *Modified sample size = 0.25" x 1" x 3"	7,250	9,000	10,700	12,200	13,100	13,100
<b>Flexural Strength (psi)</b>							
Rise Parallel to Test Span	ASTM D-790 Method 1-A	1,020	1,550	1,940	2,700	3,400	3,400
Rise Parallel to Beam Thick.		990	1,550	1,950	2,800	3,500	3,500
<b>Flexural Modulus (psi)</b>							
Rise Parallel to Test Span	ASTM D-790 Method 1-A	33,200	55,400	71,800	103,000	130,000	130,000
Rise Parallel to Beam Thick.		33,200	55,100	70,700	102,000	130,000	130,000
<b>Thermal Conductivity: (BTU-in/ft<sup>2</sup>·°F·h)</b>	ASTM C-518 at 75°F (24°C) mean temp.	0.388	0.450	0.512	0.575	0.630	0.630
<b>R-Value (ft<sup>2</sup>·°F·h/BTU)</b>		2.58	2.22	1.95	1.74	1.57	1.57
<b>Coefficient of Thermal Expansion: (in/in·°F)</b>	From -50 to +200°F, GP Method	31 x 10 <sup>-6</sup>					
<b>Poisson's Ratio:</b>	Literature (Gibson & Ashby)	~0.3					
<b>Glass Transition Temperature, Tg (°F)</b>	ASTM E-1824	240					
<b>Max Use Temperature (°F)</b>		220					
<b>Fire Safety</b>	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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\* Compressive Strength values are certified to exceed shown minimum values, all other values are nominal.

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, except as noted for the compressive strength values.

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