



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

Property	Test Method	FR-4305	FR-4310	FR-4315
Density (kg/m ³)	ASTM D-1622	80	160	240
Compressive Strength (kPa)				
Parallel to Rise				
24°C	ASTM-D-1621	690	2,050	3,850
71°C		480	1,450	2,700
Perpendicular to Rise				
24°C	ASTM-D-1621	280	1,600	4,150
71°C		210	1,100	2,900
Compressive Modulus (kPa)				
Parallel to Rise				
24°C	ASTM-D-1621	27,900	83,400	134,000
71°C		20,300	65,800	97,900
Perpendicular to Rise				
24°C	ASTM-D-1621	7,950	46,500	104,100
71°C		6,550	37,200	97,200
Tensile Strength (kPa)				
Parallel to Rise	ASTM D-1623 Type A Specimens	1,050	2,750	4,500
Perpendicular to Rise		690	2,200	4,400
Flexural Strength (kPa)				
Rise Parallel to Test Span	ASTM D-790 Method 1-A	480	2,350	5,700
Rise Parallel to Beam Thick.		480	2,350	6,250
Flexural Modulus (kPa)				
Rise Parallel to Test Span	ASTM D-790 Method 1-A	11,400	57,900	181,000
Rise Parallel to Beam Thick.		11,400	57,900	198,000
Thermal Conductivity: (W/m*K)	ASTM C-518 at 24°C mean temp.	0.031	0.039	0.046
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 (kg/m²)	ASTM D-2842	0.005	0.005	0.004
Glass Transition Temperature, Tg (°C)	ASTM E-1824	104		
Max Use Temperature (°C)		93		
Fire Safety	Self-extinguishing via FAR 25.853 (A) App. F (a)(1)(i) & (ii) tested vertically on 0.64cm 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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