



LAST-A-FOAM® FR-4600 RIGID POLYURETHANE FOAM (Metric Units)

Property	Test Method	FR-4610	FR-4615	FR-4618	FR-4625
Density (kg/m <sup>3</sup> )	ASTM D-1622	160	240	288	400
<b>Compressive Strength (kPa)</b>					
Parallel to Rise					
24°C	ASTM D-1621	1,650	3,450	5,500	10,550
71° C		1,300	2,300	3,800	6,900
Perpendicular to Rise					
24°C	ASTM D-1621	1,800	3,500	5,400	8,050
71° C		1,400	2,350	3,800	5,300
<b>Compressive Modulus (kPa)</b>					
Parallel to Rise					
24°C	ASTM D-1621	50,000	118,000	179,000	354,000
71° C		46,900	91,700	128,000	234,000
Perpendicular to Rise					
24°C	ASTM D-1621	56,000	116,000	165,000	307,000
71° C		49,000	93,800	121,000	207,000
<b>Tensile Strength (kPa)</b>					
Perpendicular to Rise	ASTM D-1623 Type A Specimens	1,950	3,150	4,600	7,600
<b>Flexural Strength (kPa)</b>					
Rise Parallel to Test Span	ASTM D-790 Method 1-A	N/A	4,850	6,700	10,300
Rise Parallel to Beam Thick.		2,750	4,850	6,600	11,700
<b>Flexural Modulus (kPa)</b>					
Rise Parallel to Test Span	ASTM D-790 Method 1-A	N/A	174,000	224,000	379,000
Rise Parallel to Beam Thick.		79,000	157,000	225,000	394,000
<b>Thermal Conductivity (W/m·K)</b>	ASTM C-518 at 24°C mean temp.	3.2 X 10 <sup>-2</sup>	3.8 x 10 <sup>-2</sup>	4.7 x 10 <sup>-2</sup>	6.0 x 10 <sup>-2</sup>
<b>Hardness, Shore D</b>	ASTM D-2240	14	22	36	43
<b>Coefficient of Thermal Expansion (m/m·K)</b>	From -34 to +71°C, GP Method	54 x 10 <sup>-6</sup>			
<b>Glass Transition Temperature, Tg (°C)</b>	ASTM E-1824	107			
<b>Max Use Temperature (°C)</b>		93			

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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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