



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

| Property | Test Method | FR-4610 | FR-4615 | FR-4618 | FR-4625 |
|--|--------------------------------------|-----------------------|---------|---------|---------|
| Density (lbs/ft ³) | ASTM D-1622 | 10 | 15 | 18 | 25 |
| Compressive Strength (psi) | | | | | |
| Parallel to Rise | | | | | |
| 75°F | ASTM D-1621 | 240 | 500 | 800 | 1,530 |
| 160° F | | 190 | 330 | 550 | 1,000 |
| Perpendicular to Rise | | | | | |
| 75°F | ASTM D-1621 | 260 | 510 | 780 | 1,170 |
| 160° F | | 200 | 340 | 550 | 770 |
| Compressive Modulus (psi) | | | | | |
| Parallel to Rise | | | | | |
| 75°F | ASTM D-1621 | 7,250 | 17,100 | 25,900 | 51,400 |
| 160° | | 6,800 | 13,300 | 18,600 | 34,000 |
| Perpendicular to Rise | | | | | |
| 75°F | ASTM D-1621 | 8,050 | 16,800 | 23,900 | 44,500 |
| 160° F | | 7,100 | 13,600 | 17,500 | 30,000 |
| Tensile Strength (psi) | | | | | |
| Perpendicular to Rise | ASTM D-1623 Type A Specimens | 280 | 460 | 670 | 1,100 |
| Flexural Strength (psi) | | | | | |
| Rise Parallel to Test Span | ASTM D-790 Method 1-A | N/A | 700 | 970 | 1,500 |
| Rise Parallel to Beam Thick. | | 400 | 700 | 960 | 1,700 |
| Flexural Modulus (psi) | | | | | |
| Rise Parallel to Test Span | ASTM D-790 Method 1-A | N/A | 25,200 | 32,500 | 55,000 |
| Rise Parallel to Beam Thick. | | 11,500 | 22,700 | 32,700 | 57,100 |
| Thermal Conductivity (BTU·in/ft²·°F·h) | ASTM C-518 at 75°F (24°C) mean temp. | 0.230 | 0.265 | 0.329 | 0.414 |
| Hardness, Shore D | ASTM D-2240 | 14 | 22 | 36 | 43 |
| Coefficient of Thermal Expansion (in/in-°F) | From -30 to +160°F, GP Method | 30 x 10 ⁻⁶ | | | |
| Glass Transition Temperature, Tg (°F) | ASTM E-1824 | 225 | | | |
| Max Use Temperature (°F) | | 200 | | | |

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