

LAST-A-FOAM® FR-4500 Tooling Board Series



PRODUCT OVERVIEW

LAST-A-FOAM® high-density, rigid foam products are cost-effective, versatile, strong and durable. They are manufactured using our unique chemical formulas to be exceptionally uniform and consistent in all physical properties.

The FR-4500 is a grain-free, machineable tooling board for styling and design models, master models, masters for composite and layup tools, and for mold and foundry patterns. The material also serves as an excellent wood alternative for outdoor signage and display manufacturing. Available in densities from 10 to 50 lbs. per cubic foot.



FR-4500 series are always flat, stable, and consistent in density. Call us at 866.825.1378 today for a quote!

FEATURES AND BENEFITS

- Special formulation creates shavings when material is machined, causing less dust
- Consistent and uniform
- Dimensionally stable
- No warp or bow in sheets
- Large sheets up to 48" x 96", thickness up to 22"
- Custom sizes available

APPLICATIONS:

- Design prototypes
- Appearance or "sight" models
- Styling models
- Architectural models
- Master models
- Temporary models
- Trim, jigs, and fixtures
- Thermoforming tools
- Prototype foundry patterns
- Mold patterns
- Topographical maps
- Dimensional check-fixtures
- Molds for low-temperature casting (<200 °F)
- Prototype/low-volume
- Vacuum-forming tools
- CAD model proofs/CNC program proofs
- Tooling aids
- Molds for low-temperature curing prepregs (<200 °F)

PHYSICAL PROPERTY DATA

	FR-4510	FR-4515	FR-4520	FR-4530	FR-4540	FR-4550	Test Method
Standard Sheet Size	48" x 96"	48" x 96"	48" x 80"	30" x 80"	24" x 60" 24" x 80"	20" x 80"	N/A
Color	Terracotta	Neutral	Tan	Terracotta	Taupe	Grey-Green	Visual
Density, lbs./ft ³ (kg/m ³)	10 (106)	15 (240)	20 (320)	30 (480)	40 (640)	50 (800)	ASTM D1622
Shore D Hardness 75 °F	15	23	31	47	63	79	ASTM D2240
Glass Transition Temperature (T _g), °F	217 °F (103 °C)						ASTM E1545-05
Coefficient of Thermal Expansion (CTE), in/in °F	29 x 10 ⁻⁶						ASTM E831-06 (Modified temp range) 75 to 200 °F
Flexural Strength, psi	375	670	1335	2121	3909	4804	ASTM D790
Compressive Strength, psi	304	599	1236	2071	3616	4514	ASTM D1621
Compressive Modulus, psi	9350	16936	26603	41037	67604	83381	ASTM D1621
Tensile Strength, psi	260	425	882	1487	2467	3102	ASTM D-1623 Type A Specimens
Tumbling Friability (% weight loss)	5.10	1.06	0.35	0.07	0.02	0.01	ASTM C421 (20 min. @ 60 rpm)
Fire Safety	S/E	S/E	S/E	S/E	S/E	S/E	*Self-extinguishing via test method shown below

* Tested vertically on 1/2" thick specimen using 12-and 60-second ignition with a Bunsen burner

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 average data and should be treated as such. 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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