

LAST-A-FOAM® FR-7100

High-Density Polyurethane Foam



PRODUCT OVERVIEW

This uniform polyurethane foam board is easily finished or painted for low-cost core applications, hand-carved models, prototypes, CNC-machined topographical maps, industrial patterns, and composite layup tools below 200°F. It is non-abrasive and can be machined with standard high-speed steel (HSS) cutting tools.



PRODUCT FEATURES

- Will not warp or bow
- Chemically inert
- Dimensionally stable
- Grain-free stock material
- Smooth finish
- Closed-cell
- Easily bonded and finished with a wide variety of adhesives and coatings
- Low densities can be hand carved and shaped easily with woodworking tools
- Higher densities are available for CNC work where more accuracy is desired
- Custom sizes available

APPLICATIONS

- Proof stock
- Composite core
- Prototype models
- Styling models
- Tooling aids
- Check fixtures
- Mold patterns
- Foundry patterns
- Decorative trim

FEED AND SPEEDS

LAST-A-FOAM® Product Density	Roughing Speed	Roughing Feed Rate	Finishing Speed	Finishing Feed Rate
FR-7110 (10 lb.)	1,200 sfm	.01-.02 fpt	1,500 sfm	.006-.015 fpt
FR-7120 (20 lb.)	1,000 sfm	.01-.018 fpt	1,300 sfm	.005-.001 fpt
FR-7130 (30 lb.)	800 sfm	.01-.015 fpt	1,200 sfm	.005-.008 fpt

Feeds and speeds are extremely flexible. These numbers are a base for what can be achieved. Please contact us for specific information.

sfm - Surface feet/minute (cutting speed)
fpt - Feed per tooth

Call us at 866.825.1378 today for a quote!

PRODUCT SELECTION GUIDE

If you are making:	Use FR-7100 products within this density range:					
	4-10 pcf*	12-15 pcf	18-20 pcf	30 pcf	35 pcf	40 pcf
Architectural Models	•	•	•	•	•	•
CAD Model Proofs/NC Program Proofs		•	•	•		
Composite Core	•	•	•	•	•	•
Design Prototype	•	•	•	•	•	•
Foundry Patterns						•
Master Models		•	•	•	•	•
Molds for low-temperature casting (<200°F); seal surfaces before use.				•	•	•
Mold Patterns	•	•	•	•	•	•
Prototype Foundry Patterns				•	•	•
Prototype/Low-Volume Vacuum-Forming Tools						•
Styling Models		•	•	•		
Temporary Models				•	•	•
Thermoforming Tools				•	•	•
Tooling Aids				•	•	•
Topographical Maps	•	•	•			

*pcf - Pounds per cubic foot

PHYSICAL PROPERTY DATA

Density	4-10 pcf*	12-15 pcf	18-20 pcf	30 pcf	35 pcf	40 pcf
Standard Sheet Sizes*	48"x96"	48"x96"	48"x96"	24"x100"	24"x96"	26"x100"
Thickness (cut to size up--)	24"	24"	16"	12"	12"	12"

*Custom sizes are available upon request.

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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