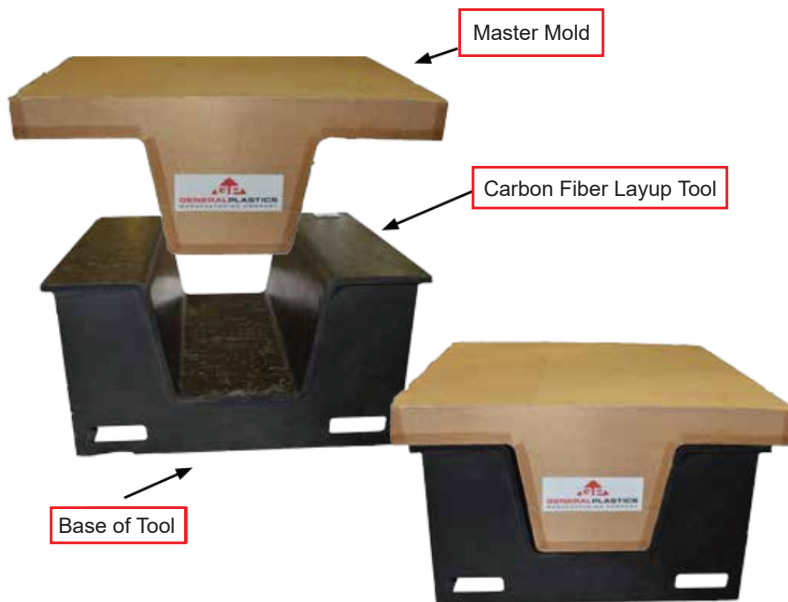




LAST-A-FOAM® FR-4700 HIGH-TEMP TOOLING BOARD SERIES

Our advanced LAST-A-FOAM® FR-4700 high-temperature polyurethane foam tooling boards can withstand peak temperatures up to 400°F (200°C) and continuous-use temperatures up to 350°F (177°C) - significantly more than other products on the market. This series is non-abrasive and can be machined with standard high-speed steel (HSS) cutting tools. It can also be cut cleanly with water jets and traditional wood-carving tools. Affordable and dimensionally stable, this rigid foam board is ideal for prototype machining, high-temperature curing prepregs, vacuum forming, pattern making, and other limited-run tooling where traditional metal dies are cost-prohibitive. The FR-4700 high-temp series of high-density foam is available in thickness up to 12 inches (31 centimeters) in 18-lb. densities, and up to 11 inches (28 centimeters) in 30- and 40-lb. densities. This high performance material is an one of our excellent choices for your high-temperature needs.



High density tooling courtesy of Hexcell Corporation®

BONDING RECOMMENDATION

FR-4700 can be bonded with epoxy or polyurethane adhesives and contact cements. See manufacturer's recommendations for bonding.

FEATURES & BENEFITS

- Withstand peak temperatures up to 400°F (200°C)
- Supports continuous-use temperatures up to 350°F (177°C)
- Highly machinable
- Consistently uniform
- Dimensionally stable

POTENTIAL APPLICATIONS

- Prototype machining
- Prepreg composite layup tools
- High temperature curing prepregs
- Master plugs and molds
- Vacuum forming
- Tool proofing
- Limited-run tooling
- Pattern making
- Master mold making
- Monolithic tools and molds

CERTIFICATIONS & QUALITY SYSTEMS

ISO 9001:2015/AS9100D
Mil-I-45208A
Boeing Company D6-82473
ITAR-Compliant

PHYSICAL PROPERTY DATA

PROPERTY	UNIT	FR-4718	FR-4730	FR-4740	TEST METHOD
Density	lbs/ft ³	18	30	40	ASTM D-1622
	kg/m ³	288	481	641	
Compressive Strength (75°F)	psi	1,200	3,000	5,200	ASTM D-1621
	kPa	8,250	20,700	35,900	
Coefficient of Thermal Expansion (CTE)	in/in-°F	26 X 10 ⁻⁶			From -50 to +200°F, GP Method
	m/m-K	47 X 10 ⁻⁶			
Max Use Temperature	°F	400			
	°C	204			

rev. 6.19.2019

Values shown are parallel to the direction of rise and representative values.

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.

For additional physical property data, please contact our technical sales group
at 253.473.5000 or sales@generalplastics.com

STANDARD SHEET SIZES

PRODUCT	HEIGHT in (cm)	WIDTH in (cm)	LENGTH in (cm)
FR-4718	12 (30)	48 (122)	96 (244)
FR-4730	11 (28)	24 (61)	96 (244)
FR-4740	11 (28)	24 (61)	96 (244)

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Curbell Plastics is a proud supplier of General Plastics materials.



All General Plastics' products are manufactured in the United States and are free of CFCs and VOCs.