

ABT FOAM

Advanced Building Technologies Inc.

Strength.

Design.

Innovation.

www.abtfoam.com

866-634-6057

ABT Foam Packing Solutions



CUSTOM SHAPE MOLDING • FABRICATION • CUT TO SIZE

STRENGTH • DESIGN • INNOVATION

PROTECTIVE PACKAGING & COOLERS

ABT Foam is a leader in manufacturing expanded polystyrene (EPS) foam protective packaging for a wide range of commercial and consumer needs. ABT Foam has the capability of producing intricate profile cut parts, custom molded parts or cut size flat sheets meeting the customers specifications.

EXPANDED POLYSTYRENE (EPS)

EPS foam is produced in a variety of densities ranging from soft and low density of 0.85 pcf (8 psi) to the much more rigid and high density 2.0 pcf (25-33 psi). With this wide range in density and psi, EPS can be produced to meet the customer needs, applications and packaging solutions. EPS is manufactured with no recycled content (virgin EPS foam) or up to 35% recycled EPS.

SHEETS, PADS, SPACERS AND BOX LINERS

ABT Foam's EPS foam is ideal for numerous packaging solutions requiring sheets, pads, spacers and box liners. With it's wide range in densities and sizes, EPS is ideal for affordable packaging and product shipping. ABT Foam manufactures custom parts per the customers specifications, sizes and densities. EPS foam sheets are made to almost any size is available with no tooling required.

CUSTOM MOLDED EPS SHAPES AND FABRICATIONS

Using the latest in custom molding machinery, computer design technology and precision cutting equipment, ABT Foam has the ability to design and produce a multitude of shapes, sizes, fabrications and configurations for specific molded parts for shipping cooler and protection packaging. With professional and innovative design team and experienced well trained production staff, ABT foam has the ability to produce precision parts to meet your specifications.

ADVANTAGE TO THE CUSTOMER FOR CAD PROFILE CUTTING

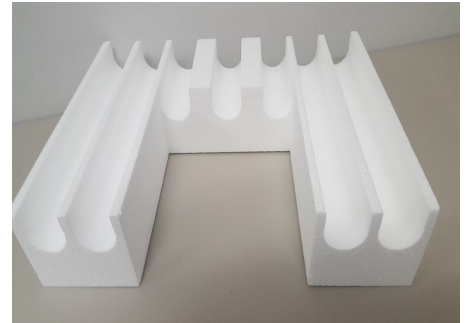
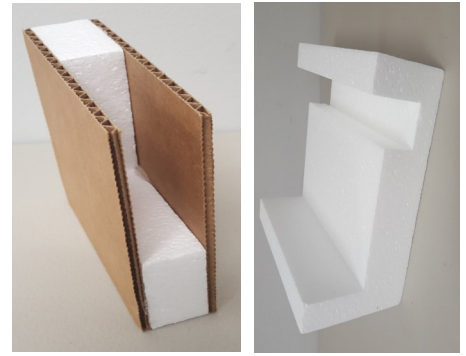
- CAD produced parts eliminating the cost for expensive tooling
- Any quantity eliminating the cost of expensive inventory
- Samples provided for first article and testing
- Easily altered to meet customers changing specifications

MOLDED COOLERS IN INVENTORY

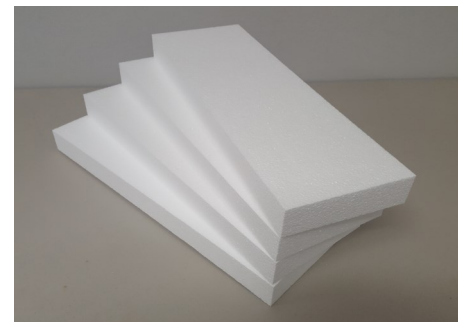
- Interior Dimensions: 4.875" x 6" x 2.75" Deep
- Interior Dimensions: 6" x 8" x 7" Deep
- Interior Dimensions: 6" x 8" x 4.25" Deep
- Interior Dimensions: 10.5" x 12.5" x 9.25" Deep
- Interior Dimensions: 9.5" x 15.375" x 4.125" Deep

PACKAGING APPLICATIONS

- Molded Coolers for food and medical
- Commercial and industrial engineered packaging
- Furniture
- Appliances
- Electronics
- Drink shippers
- Automotive
- Fragile packaging



Custom Molded or Profile Cut



Sheets, Pads, Spacers Made To Order



Custom Molded Coolers & Packaging

TYPICAL PHYSICAL PROPERTIES OF EPS

Specification Reference: ASTM C578

Property	Units	ASTM Test	Type XI	1.0# Density	1.25# Density	1.5# Density	2.0# Density
				Type I	Type VIII	Type II	Type IX
Density, Min.	(pcf)	D 303 or D 1622	0.75	0.9	1.15	1.35	1.8
Density Range			0.70	0.90-1.14	1.15-1.34	1.35-1.79	1.80-2.20
Thermal Conductivity	at 25 F	BTU/(hr.)	C 177 or C 518	0.23	0.22	0.21	0.20
K Factor	at 40 F	(sq. Ft.)(F/in.)		0.24	0.235	0.22	0.21
	at 75 F			0.26	0.255	0.24	0.23
Thermal Resistance	at 25 F			4.35	4.54	4.76	5.00
R-Value*	at 40 F		3.30 - 3.43	4.0 - 4.17	4.20 - 4.25	4.40 - 4.55	4.60 - 4.76
	at 75 F		3.10 - 3.22	3.6 - 3.85	3.9 - 3.92	4.0 - 4.17	4.20 - 4.35
Strength Properties							
Compressive 10% Deformation	psi	D 1621	5.0	10 - 14	13 - 18	15 - 21	25 - 33
Flexural	psi	C 203	10.0	25 - 30	30 - 38	40 - 50	50 - 75
Tensile	psi	D 1623		16 - 20	17 - 21	18 - 22	23 - 27
Shear	psi	D 723		18 - 22	23 - 25	26 - 32	33 - 37
Shear Modulus	psi			280 - 320	370 - 410	460 - 500	600 - 640
Modulus of Elasticity	psi			180 - 220	250 - 310	320 - 360	460 - 500
Moisture Resistance							
WVT	perm. In.	E 96	5.0	2.0 - 5.0	1.5 - 3.5	1.0 - 3.5	0.6 - 2.0
Absorption (vol.)	%	C 272	4.0	less than 4.0	less than 3.0	less than 3.0	less than 2.0
Capillarity				none	none	none	none
Coefficient of Thermal Expansion	in./(in.)(F)	D 696		0.000035	0.000035	0.000035	0.000035
Maximum Service Temperature							
Long-term Exposure	Deg. F		167	167	167	167	167
Intermittent Exposure			180	180	180	180	180
Oxygen Index	%		24.0	24.0	24.0	24.0	24.0
Flame Spread			less than 25	less than 25	less than 25	less than 25	less than 25
Smoke Developed			less than 450	less than 450	less than 450	less than 450	less than 450

Physical Properties chart is reprinted with the permission by The Society of the Plastics Industry, Inc.

Caution: EPS foam insulation contains a flame retardant. However, it should be considered flammable and should not be exposed to any source of combustion. This product should be used in accordance with local fire and building codes.

"DISCLAIMER: The customer and the customer's architects, engineers, consultants and other professionals are completely responsible for the selection, installation, and maintenance of any product purchased from ABT FOAM, LLC., and EXCEPT AS EXPRESSLY PROVIDED IN ABT FOAM'S STANDARD WARRANTIES, ABT FOAM MAKES NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE SUITABILITY, DESIGN, MERCHANTABILITY, OR FITNESS OF THE PRODUCT FOR CUSTOMER'S APPLICATION. Copies of ABT FOAM'S standard warranties are available upon request."

ABT FOAM'S Trade Mark Products: Advanced Wrap™, DropSide™ and PreFur™



STRENGTH

As a part of the ABT family of businesses, ABT Foam has the backing of a seasoned and experienced group of business leaders who know and understand the complexities of today's market place.

DESIGN

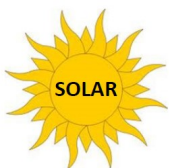
ABT Foam has the ability to design and produce a range of expanded polystyrene (EPS) foam products to fit a variety of uses and applications.

INNOVATION

ABT Foam uses highly sophisticated processes and the latest technologies to manufacture and produce one of the most cost effective insulating, fabrication and packaging products in the world.



EPS Contains No Ozone Depleting CFCs



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