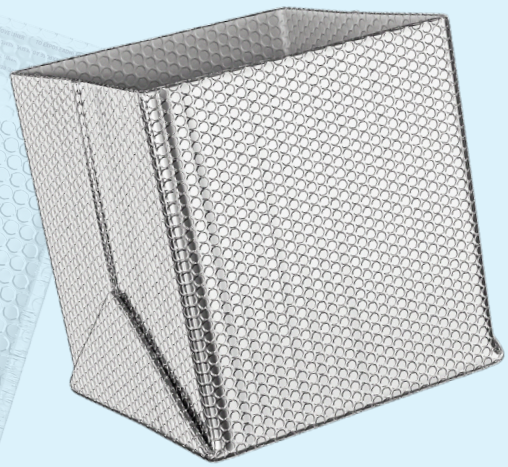
TempShield™

Thermal Packaging by Reflectix

Reflective insulation packaging for temperature-sensitive products.



Custom solutions for every packaging need!
Product Line-up:

Thermal Pouches

- Lightweight material saves on shipping costs
- Bubble lining shields shipment from damage
- Custom sizes available

Gusseted Liner — Leak Resistant

- One-piece, leak-resistant design
- Easy to install in boxes or containers
- FDA approved for food transport

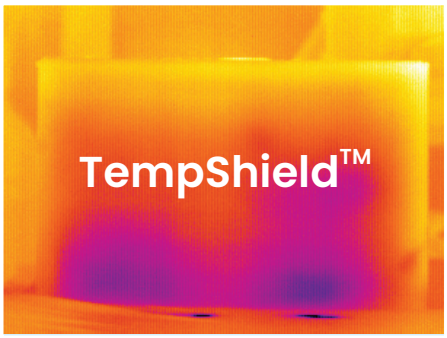
Thermal Pallet Covers

- Ideal for shipping food or pharmaceutical products
- Maintains stable temperature throughout transport

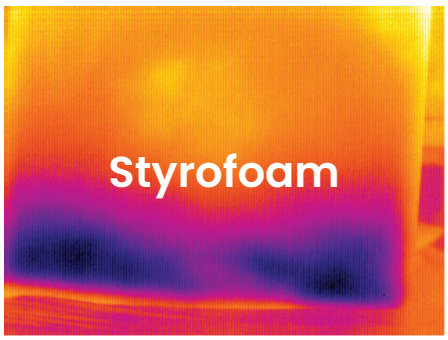
Reduces amount of warehouse storage by 85% when compared to EPS material.

Why reflective packaging?

- Reflects up to 96% of radiant heat which helps to maintain internal temperature
- Reduces warehouse storage by up to 85% compared to expanded polystyrene (EPS)
- Lightweight yet durable—reduces shipping costs
- FDA-compliant, food safe, and is a moisture barrier



vs.



Photos above show thermographic images of a TempShield™ lined corrugated box and a styrofoam cooler. Tests were performed at a leading midwestern university. Images were taken with six Freezer Brix in each container after five minutes. These images show the outside temperature of each container. The blue indicates the cold energy escaping.

Industries

Perishable foods

Cosmetics

Floral

Pharmaceuticals

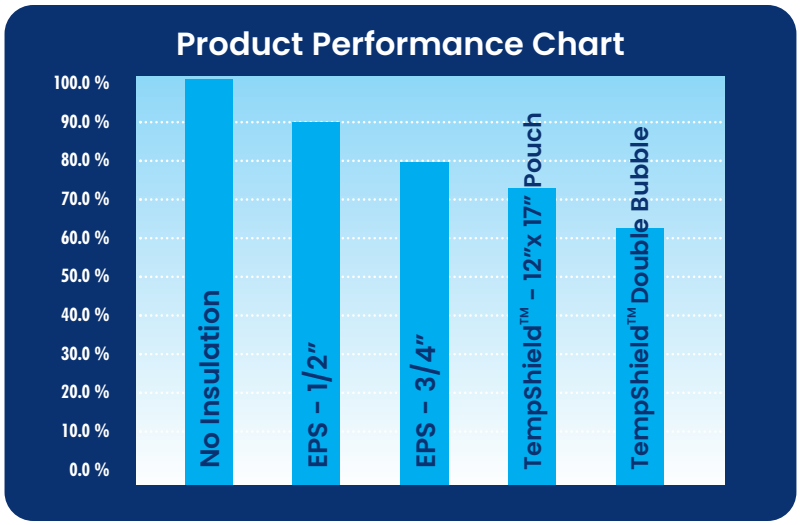
Biotech and Labs

Material Comparison - 20 hr. test

Table and graph below show the results of a 20 hr. test using 3.5 lb. blocks of ice packaged in various configurations. TempShield™ outperformed them all! After 20 hours the ice had lost 63.4% of its initial weight!

Material:	Starting Weight of Ice (lbs):	Residual Weight of Ice After 20 hrs. (lbs):	Weight of Ice Melted (lbs):	Ice melted after 20 hrs. as a % of initial weight of ice (%):
No Insulation	3.531	0.000	3.531	100.0
EPS - 1/2"	3.540	0.356	3.184	89.9
EPS - 3/4"	3.551	0.741	2.810	79.1
TempShield™-MFL 12"x17" Pouch	3.530	0.904	2.626	74.4
TempShield™ Double Reflective/Double Bubble	3.557	1.303	2.254	63.4

Graph shows melting percentages after 20 hrs.



Bulk rolls available in various widths and lenths

Proven Applications:

Perishable Foods

- Seafood, Meat and Poultry
- Beverages; i.e. wine, juices
- Gourmet Foods
- Baked Goods
- Dairy; i.e. ice cream, milk, cheese
- Confections; i.e. candies, chocolates

Medical

- Pharmaceuticals
- Healthcare
- Clinical Labs
- Organ Transport
- Prescription Labs
- Biotechnology
- Blood Transport
- Cryogenic Research
- Medical Supplies; i.e. implants
- Genetics, DNA

Scientific / Industrial

- Chemicals
- Solders
- Ink Manufacturers
- Animal Fluids
- Adhesives
- Bio Chemicals

Animal Health

- Animal Fluids / Animal Labs
- Veterinarian Products and Supplies
- Banquet Facilities

Other

- Flowers
- Cosmetics/Perfumes
- Tropical Fish
- Freight Companies

Tested. Proven. Certified.

Backed by Independent Lab testing

(Double Reflective, Double Bubble)

Vapor Transmission	.000
Mold & Mildew	No Growth
Emittance	0.04
Tensile Strength	3.7 N/mm
Pliability	No Cracking
Thermal Performance	ASTM C518
Fungus Resistance	MIL Std 810B Method 508
Water Vapor Transmission	ASTM E96
Tensile Strength	ASTM D751
Emittance Testing	ASTM C1371

Raw Materials Comply with USDA & FDA Regulations
Reflectance Measurements in four Wavelengths

All tests on TempShield™ insulation are performed at either nationally approved independent laboratories or leading universities. Tests are performed to current American Society of Testing and Materials (ASTM) Standards when a standard exists.

- Complies with USDA & FDA standards
- ASTM and MIL tested
- Low emittance (.04)
- High tensile strength
- Resistant to fungi, mold, mildew

Reflectix

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