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## Wafflemat Frequently Asked Questions

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### MATERIAL + PROPERTIES

#### What type of material is used to make the WAFFLEBOX?

WAFFLEBOXES are made from 100% recycled reprocessed polypropylene (plastic), a “Green” product.

#### Why are the WAFFLEBOXES constructed of Polypropylene?

Polypropylene is a light weight and strong material, and it maintains its strength over a wide temperature range. The WAFFLEBOXES are strong enough to support the weight of the concrete workers during installation and the pouring process.

The Polypropylene material used is tough and impact resistant, ensuring that the WAFFLEBOXES will hold up well in the construction environment. It is a highly stable and chemically nonreactive resin that, when covered with concrete, will last decades before any degradation. It is impervious to water and water vapor, providing an effective moisture barrier.

#### Has the polypropylene gone through chlorine testing?

Polypropylene is inherently inert to chlorine and chlorides.

#### How do you ensure consistent quality of the WAFFLEBOX?

To ensure that the WAFFLEBOXES exhibit consistent physical properties and quality, we regularly submit them to an independent plastic-testing laboratory for analysis and tracking.

The lab performs an Oxidation-Induction Time test, which measures the time it takes for the stabilizer to be depleted when the resin is in a molten state and exposed to air or oxygen.

They also perform Impact Resistance testing of Flat, Rigid Plastic Specimens similar to ASTM D 5420-04.

Finally, the lab performs Thermomechanical Analysis to measure softening point.

## INDUSTRY CERTIFICATIONS

### Why doesn't the plastic or the WAFFLEBOX have a UL listing?

UL listing in this case would refer to the fire resistance of the product. Again, since the WAFFLEMAT is a concrete form system and buried under several inches of concrete slab, the application does not warrant a UL listing.

### Is there an NSF report for the plastic or the WAFFLEBOXES?

Since National Sanitation Foundation testing and certification is applicable to products that come in contact with potable water or food, a NSF would have no relevance to the WAFFLEBOXES.

## STORAGE AND WAREHOUSING

### What are the dimensions of a WAFFLEBOX?

19.25" x 19.25" by 8.5" high. The wall thickness of the boxes is .070"

### What pertinent information can you give regarding storing/warehousing the WAFFLEBOXES?

<b>Boxes per Pallet</b>	104
<b>Dimensions of Loaded Pallet</b>	42"x42" pallet, about 80" high
<b>Weight:</b>	
Pallet [ only ]:	46 lbs.
Boxes [ only ]:	327 lbs.
Total:	373 lbs.

Pallets are double stackable at most. However, and if there is double stacking, keep in mind that the top parts of the bottom pallet may be slightly wrinkled, and the rest of the parts on the bottom pallet might be hard to separate.

Storage outside is fine. However, if you are expecting extended exposure to the sun (over a month), cover the pallets with an opaque tarp.

It is also advisable to implement "First In First Out" (FIFO) policy of inventory control to assure minimum storage time.

**Where are the WAFFLEBOXES made?**

For over 10 years they have been manufactured at Kennerley-Spratling, Inc., in San Leandro, California ([www.ksplastic.com](http://www.ksplastic.com)).

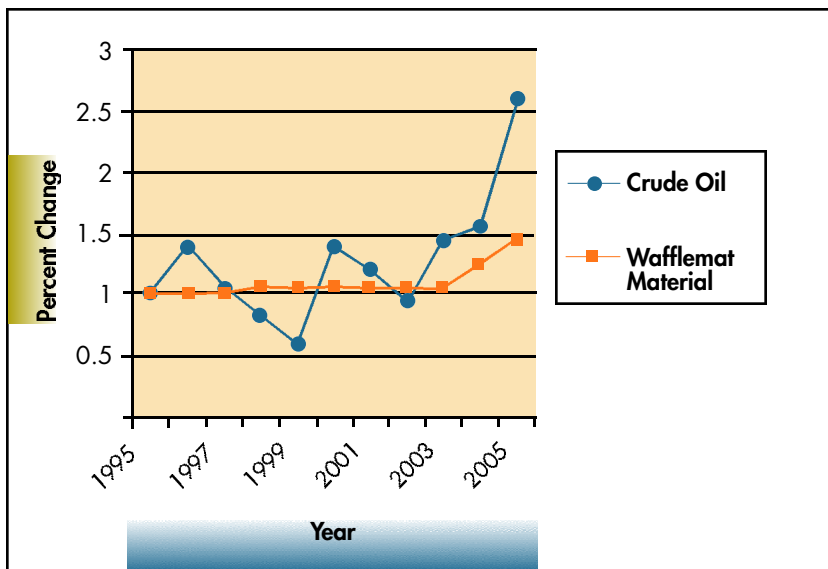
KSI is a California Corporation and a manufacturer of precision, custom molded plastic parts for customers throughout the world. KSI operates 24 hours a day, 5 days a week from a 72,000 square foot state-of-the-art facility equipped with 21 reciprocating screw injection molding machines, a complete finishing department, in-house mold-making capabilities and a fully-staffed Quality Control department.

KSI capabilities include engineering and design assistance, mold construction, custom injection molding and assembly. The KSI operation houses a full range of capabilities under one roof, assuring consistent quality, and project supervision from initial engineering to finished product.

Every WAFFLEBOX is Made in the U.S.A.

**Is there historical data on price fluctuation over the past 10 years of use in the building industry?**

The following depicts a 10 year history of the WAFFLEBOX manufacturing cost. The cost of the polypropylene material accounts for the majority of the price change. We provide the price of crude oil during the same time period because, even though we're using recycled material, oil prices seem to be the largest contributor to the polypropylene material cost.



**What is the area covered by one WAFFLEMAT cell (four WAFFLEBOXES interconnected)?**

Approximately 40" x 40"

**How many WAFFLEBOXES are needed for a typical floor?**

A fairly good rule of thumb for calculating the number of WAFFLEBOXES required for a given floor is to divide the total square footage of the floor by 4 or 4.5.

For a 2000 sq/ft floor, the approximate range of required WAFFLEBOXES would be from 444 to 500 boxes. Obviously, the exact number required will be determined by an engineer's final design.

**How many man-hours are typically required to prepare a WAFFLEMAT System foundation for pouring?**

There are several factors that determine exact installation time of the WAFFLEMAT System. However, and on average, approximately 75 WAFFLEBOXES per hour can be installed.

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