



Information from Smart Retur in the event of a fire in a warehouse with only Smart Retur Plastic pallets, and the recommended precautions that should be checked out:

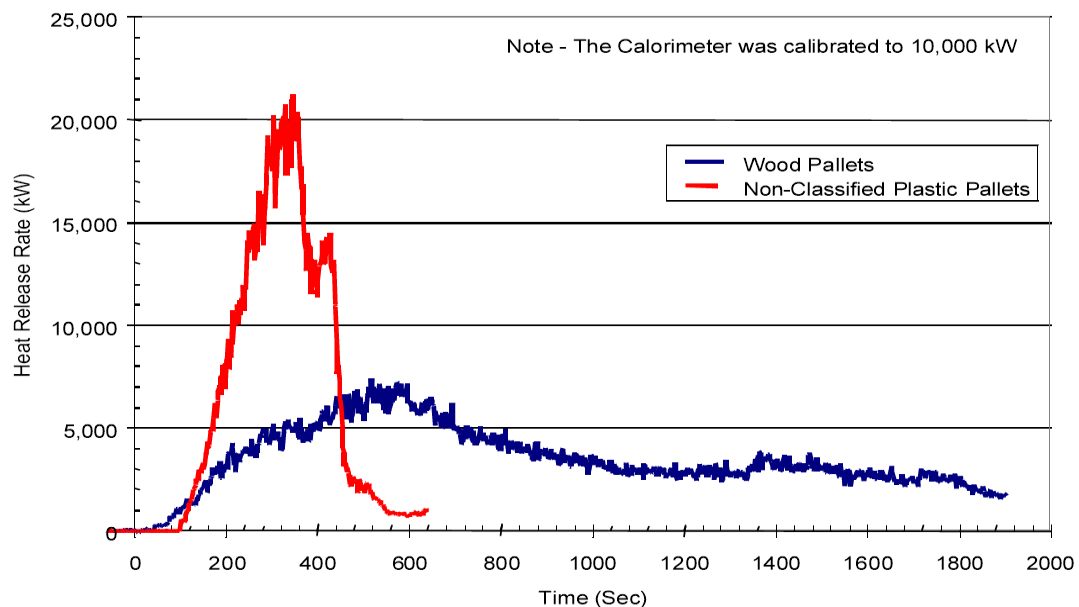
General information

In a warehouse, whether there are products stored on a Smart Return Plastic Pallet or EUR Wooden Pallet, there will be no significant difference between a wooden pallet or Smart Return Plastic Pallet as load carriers. It is the products stored on the pallet itself that need to be focused on regarding fire danger.

Smart Retur has an efficient return solution, so that customers do not need to store empty Smart Retur Plastic Pallets in large quantities in their own warehouses.

Ignition

Should a fire occur in a warehouse with only plastic pallets, it will ignite later than a wooden pallet. Tests performed by our plastic pallet manufacturer Shuert Technologies have showed that a wooden pallet ignites faster than a Smart Return Plastic pallet according to the American standard UL 2335.



This delay in time can prove valuable if a fire should occur as people have more time to evacuate the premises.

It also turns out that a higher temperature is required for the plastic in the Smart Return Plastic Pallet to ignite, compared to the EUR wooden pallet

EUR Wooden pallets antennas ignites at 110 ° C

HDPE Plastic pallets antennas ignites at 380 ° C

(results from plastic manufacturer Exxon mobile, which is a plastic supplier to Shuert)



After ignition

When the plastic pallet ignites, it develops in total more heat and energy than a EUR wooden pallet.

The diagram shows that the Smart Return plastic pallet burns for a shorter time, with a higher energy emission.

Extinguishing

In the event of fire extinguishing, no additional protection requirements are needed. It is up to the individual customer to consider sectioning, sprinkling, aspiration systems, Co2 systems, etc.

Smart Return Plastic pallets do not develop oil fires – in general, a warehouse does not require any special fire extinguishers.

The present use of the Plastic pallet

The same plastic pallet have been in use in the grocery retail market in both Norway and Sweden for over 10 years (since 2011) with a volume of approx 2.5 million pallets distributed to over 1000 warehouse facilities. With only a few exceptions in really old facilities, extraordinary fire protection measures have not been required.

Gas emissions

The gas emissions released by fire are the same as by fire of wooden pallets. Mostly CO₂.

Other information

Smart Return Plastic pallet is also designed so any "umbrella effect" will be avoided. If the Smart Return Plastic pallet on fire is on storage rack, the load will fall straight down and not spread to nearby pallets, which makes extinguishing work much more manageable.