

# Rodent Repellent

## plastic technology

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**A range of non-lethal/humane rodent repellent masterbatches offering a compelling blend of efficacy, safety and sustainability.**

Rodents can cause dangerous damage to plastic products such as electric cable insulation, piping in building infrastructure, warehouse pallets, non-food packaging and boxes etc.



# Rodent Repellent

## plastic technology



Symphony has developed masterbatch technologies to fight back with products that repel these pests. The masterbatch can be incorporated into polymeric matrices like LDPE, HDPE and PVC without compromising the integrity or performance of the material. This makes it ideal for cables, pipes, films and packaging vulnerable to rodent attack.

### Symphony's range of rodent repellent technologies offer the following advantages:

**Behavioural change:** Rodents are deterred from gnawing the plastic by intense dermal irritation and extremely bitter taste, or a burning sensation. Rodents exposed to plastic containing our masterbatch have shown avoidance behaviours. Even at low concentrations the rodents will stop gnawing, reduce contact and seek alternative food sources.

**Non-lethal and humane:** Repels rather than kills. Avoids ecological disruption and secondary poisoning risks associated with rodenticides.

**Broad spectrum repellent:** Effective against multiple species of pests. Can be used in diverse environments including agriculture, industrial storage, commercial and residential buildings, and even automotive and aircraft wiring.

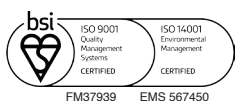
**Safe for humans:** Approved for use in controlled concentrations in pharmaceuticals and food-grade applications. The active ingredients do not leach out of the polymer matrix, and are effective in low doses.

**Cost-effective alternative:** The active is a synthetic, making it cheaper and more stable than the natural / similar active substances, whilst offering similar efficacy with reduced production costs and better shelf life.

The active ingredients do not leach out of the polymer matrix, they are effective in low dosages and have a long active life of between 15-30 years.

Our actives essentially hijack the rodent's pain and discomfort pathways, creating a strong, lasting deterrent.

Characteristics	Masterbatch
Colour	Colourless
Mechanism	Dermal irritation/pain and burning sensation which repels the pest
Applications	Masterbatch incorporated into plastic articles vulnerable to attack by rodents.
Addition Rate	Usual addition rate is 1% - special applications may require 2-3%
Odour	None
Stability	220°C
Storage	Product should be stored in dry condition not exceeding 30°C. Under these storage conditions the product has a shelf life of 12 months from date of supply.



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