



Insecta™ RXT

Rodent Repellent for Thermoplastics

Insecta™ RXT masterbatch, with specially engineered chemical composition, repels rodents and similar animals from chewing and gnawing compounded materials, such as thermoplastic sheets/films, electric and fiber optic cables, plastic pipes, foam insulation, and many other materials.

FEATURES

- EVA-based carrier resin makes **Insecta™ RXT** compatible with PVC, LDPE, LLDPE, HDPE, LSOH/HFFR, XLPE, EPDM, PP, ABS, and others.
- **Insecta™ RXT** mixes uniformly with base polymer at normal processing temperatures.
- **Insecta™ RXT** is non-toxic, non-hazardous, non-dangerous and environmentally friendly and in compliance with REACH and RoHS.

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PROPERTIES

- Composition (% w/w): Active ingredients $\geq 5\%$ + EVA $< 95\%$
- Form: White-orange pellets
- Melt Temperature: 87 °C
- Softening Point: 59 °C
- Decomposition Temperature (EVA): 210 °C
- Decomposition Temperature (Active Ingredients): 340 °C
- Vinyl Acetate: 18%
- Rate of Usage*: 2% of base polymer

*Every application is unique. Therefore our recommended usage rate is only a suggested starting point. The best rate will be determined through experimentation.

- Shelf Life: Best before 24 months from the date of manufacturing under specified storage conditions. Store in airtight containers in cool and dry place away from light & heat.
- Handling: Stir well before use. Avoid contact with skin and eyes.

USAGE

Typically, **Insecta™ RXT** is added at rates of 3-5%, depending on the application, but in certain applications where the product has a very thin profile (like tape and film), rates can be as high as 7%. In other uses, 1-2% is satisfactory. Experimentation to optimize usage is the only true guide for your specific application.

TEST RESULTS



Figure 1. Untreated (left) and **Insecta™ RXT** treated (right) PA sheets after 1 week of rodent exposure. The untreated were damaged fully by gnawing.

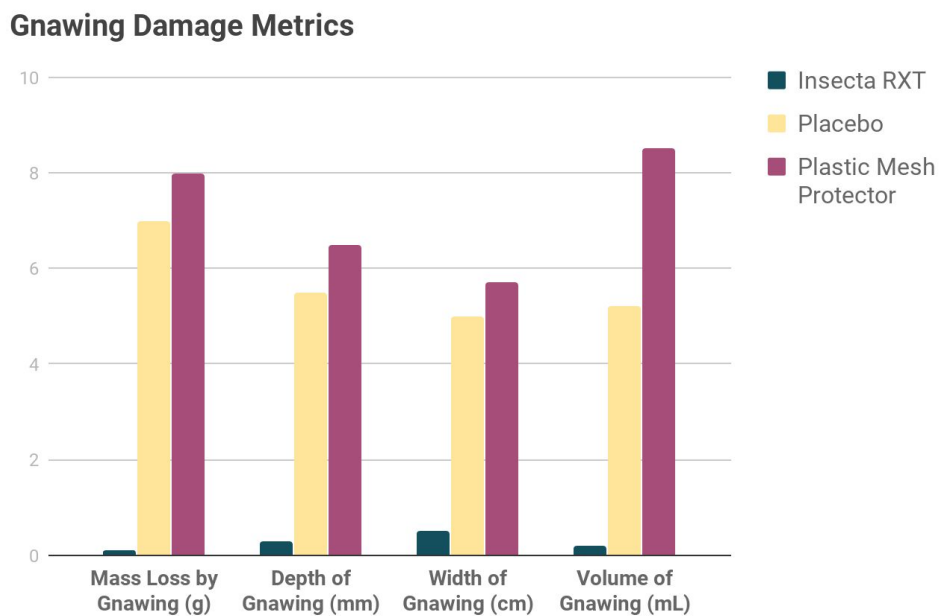


Figure 2. Gnawing damage points by rodent exposure for plastic samples after 1 week; comparison of protection methods. **Insecta™ RXT** treated plastic sample shows almost no damage.



DISCLAIMER

Information presented is based on knowledge that is considered reliable but is stated without guarantee, warranty or responsibility regarding correctness, applicability or suitability for use. Buyer/user accepts all liability and sole responsibility for determining that the product is suitable for its actual use. Metaa accepts no liability for consequential damages arising from the sale, resale or use of this product.

Please note there is not a reliable way to measure the coating weight in plant environments. Samples can be taken from the run and sent to Metaa for analysis that will determine if the targeted active specification is being achieved.