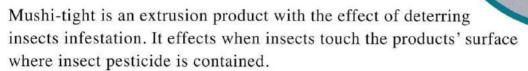


Mushi Tight (Bug repellent gasket)

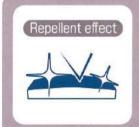
Mushi-tight is a high functional gasket with an effect of insect repellent.



By co-extruding pesticide-combined plastic in a very thin layer, we enable to reduce the production cost. We use "Etofenprox" which has very low risk of human impact, and its effectiveness is long-lasting comparing to an odiferous pesticide because etfenprox can be released by slow degrees (Effective shelf life is about 5 years, yet it depends on the usage environment.)

Base material should be TPO. Please consult us for further details.

Features



Significant insect repellent effect is proven by our testing.



Etfenprox has very low risk of human impact.



Production cost is low because very small amount of pesticide is needed.



Effect lasts for 5 years under the indoor environment.

Applications

Gaskets, packings, sealing materials and insulators for car parts, construction parts and precision machineries.

Quality specification is determined by separate negotiations because requirements vary according to the conditions under which the products will be used.

HOTTY POLYMER Co.,Ltd.

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Mushi Tight (Bug repellent gasket)

*Please consult us for detail.

Effect of insect deterring

- Test sample : Correspond to 5-year-useditem (Accelerated test condition=60°C × 1800hours)
- Performance assessment procedure

The repellent effects were evaluated by selective repelling tests utilizing the habit that a cockroach prefers dark narrow space.

First, we put the nesting shelters on the Mushi-tight processed sheet area and non-processed sheet area. After leaving for 10 hours, we removed the shelters. Then, we counted the numbers of cockroaches in each area and calculated the repelling rates by the following formula.

Repelling rate = [Number of cockroaches on Mushi-tight processing area] - [Number of cockroaches on Mushi-tight processing area] \div [Number of cockroaches on non-Mushi-tight processing area].

■ Test results

According to the below contents, Mushi-tight has more thatn 5 years of effective shelf life.

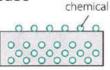


Test samples	Processing area	Non-processing area	Repelling rate
Unused item	0	9	100%
Correspond to 3-year-used item	0	10	100%
Correspond to 5-year-used item	0	9	100%

Continuousness

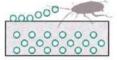
■ Mechanism of sustained-release

Chemical is exuded by slow degrees, so that a small amount of pesticide is always on a surface of the products. The effective shelf life of Mushi-tight is evaluated about 5 years.

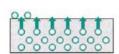


repellent

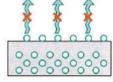
① Sube-up contains the repellent chemical in itself.



 It affects when insects touch the chemical.



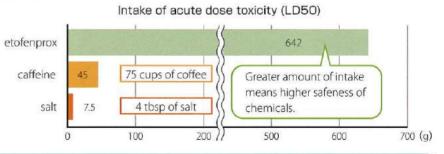
③ Chemical is exuded by slow degrees.



The chemical does not volatilize or evaporate.

Safeness

Toxicity of etofenprox is evaluates as very low; therefore this chemical is widely used for many products. About 50% of children weighing 15kg will die when they take about 21million pieces of etfenprox sheets (50mm square, 40µ thickness).



Application

Door s and windows sealing, packing for electronic substrate chasis.









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