



TCOQ-X[®]
 TCoQ-X, Google us!

**VESTA
 GLOBAL
 LIMITED**

TCOQ-X[®] Biodegradable ECO-Pellet Plastic Polymer

Nanotechnology degradable eco-pellet plastic polymer

Production cost savings
Achieve environmental protection
Lead-free, non-toxic
Biodegradable

- Excellent quality**
- Prompt Delivery**
- Competitive pricing**
- Environmentally friendly products**
- Reduce plastics consumption**
- Elimination of plasticizers**

VESTA GLOBAL LIMITED

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Nanotechnology Degradable eCO-Pellet Plastic Polymer

TECTONIC GROUP

鈦達鋰集團 維億達環球有限公司

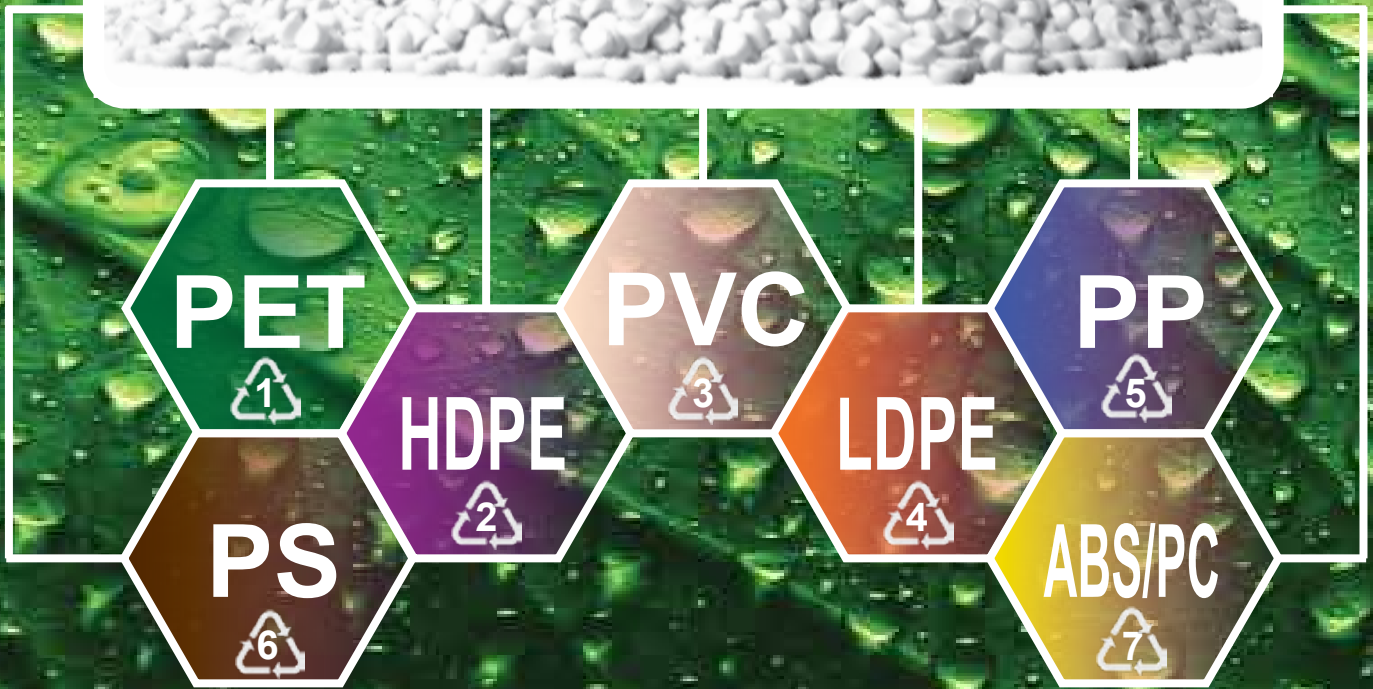
ISO 9001:2000 Products RoHs Compliance

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TCOQ-X® VG Series



Upgrade instantly without modification

| | |
|-----------------------------------|-------------------------------|
| Environmental Pollution 0% | Plasticizing toxins 0% |
| Cost reduction 20~30% | Hybrid use 50% |
| Finished fusion 100% | Recycling 100% |



The world's finest biotechnology formula



HDPE



LDPE



PP

**Landfill / incineration
recycling**

60~180 days buried decomposition
Non-toxic / smokeless

**Biodegradable
Recycleable**

**White powder
Non-toxic Alkaline**

**TPU
PO
Nylon**

**PMMA
PI
etc.**



PET



PVC



PS



PC

incineration / recycling

Dioxin reduced by 50%

Recycleable

**White powder
Non-toxic Alkaline**



ABS/SPS

incineration / recycling

Dioxin reduced by 50%

Recycleable

**White powder
Non-toxic Alkaline**



TCOQ-X® VG Series

VG ECO Pellet finished product are 100% recyclable



| | | | | |
|------------|------------|--|--|--|
| 20% | 50% | | | |
|------------|------------|--|--|--|

| | | | | |
|------------|------------|--|--|--|
| 15% | 40% | | | |
|------------|------------|--|--|--|

| | | |
|------------|------------|--|
| 10% | 40% | |
|------------|------------|--|

| | | | |
|-----------|------------|-------|------|
| 5% | 45% | TPU | PMMA |
| | | PO | PI |
| | | Nylon | etc. |



Cost reduction!
Profit increased!



VG3
40%

ABS
60%

TCOQ-X®

VG Series = optimize profitability

- ABS
- 20% = initial recommended dosage
- 40% = maximum recommended dosage

How to reduce costs? Example: Chi Mei PA-765 (ABS)

ABS = US \$ 3,650 / Ton

Instead, add VG

VG3 40% = US \$ 1,800 / Ton = 4,000 kg = US \$ 720

ABS 60% = US \$ 3,650 / Ton = 6,000 kg = US \$ 2,190

CR : (3,650 - 2,910) / 3,650 = 20.28%





TCOQ-X® VG Series

Degradation Characteristics Comparison Table

| | VG | D2W | PLA |
|------------------------|--------------------|--------------------------------|-------------------------------|
| Degradation mode | Biodegradable | Photooxidation | Biodegradable |
| Degradation Time | 60-180 days | 60 days - 5 years | 50 days to 2 years |
| Degradation conditions | Landfill (compost) | Water + heat | + Anaerobic chamber |
| Degradation | Biomass CO2 + | Biomass CO2 + | Biomass CO2 + |
| By-product | Water | Oxidation Not practical | Water/ Massive methane |
| Plastic remake | Yes | Yes | No |
| Proportion of added | 20% to 50% | 1% to 3% | 10% to 30% |
| Degradation applicable | PP & PE | PP, PE, PS | PP & PE |

Note: VG series will directly affect the proportion of added degradation time after burial



Green plastic pellets combustion Comparison Table

| | VG | d2w | PLA |
|--------------------|-----------------|-----------|--------------|
| Incinerator | Yes | Yes | 800 degrees |
| Combustion process | Non-toxic | Non-toxic | Non-toxic |
| After burning | Alkaline powder | Lump | White powder |

Don't let recycling became pollution!

When you need to use a stabilizer to control oxidative degradation time, degradation and heavy metals still environmentally friendly?

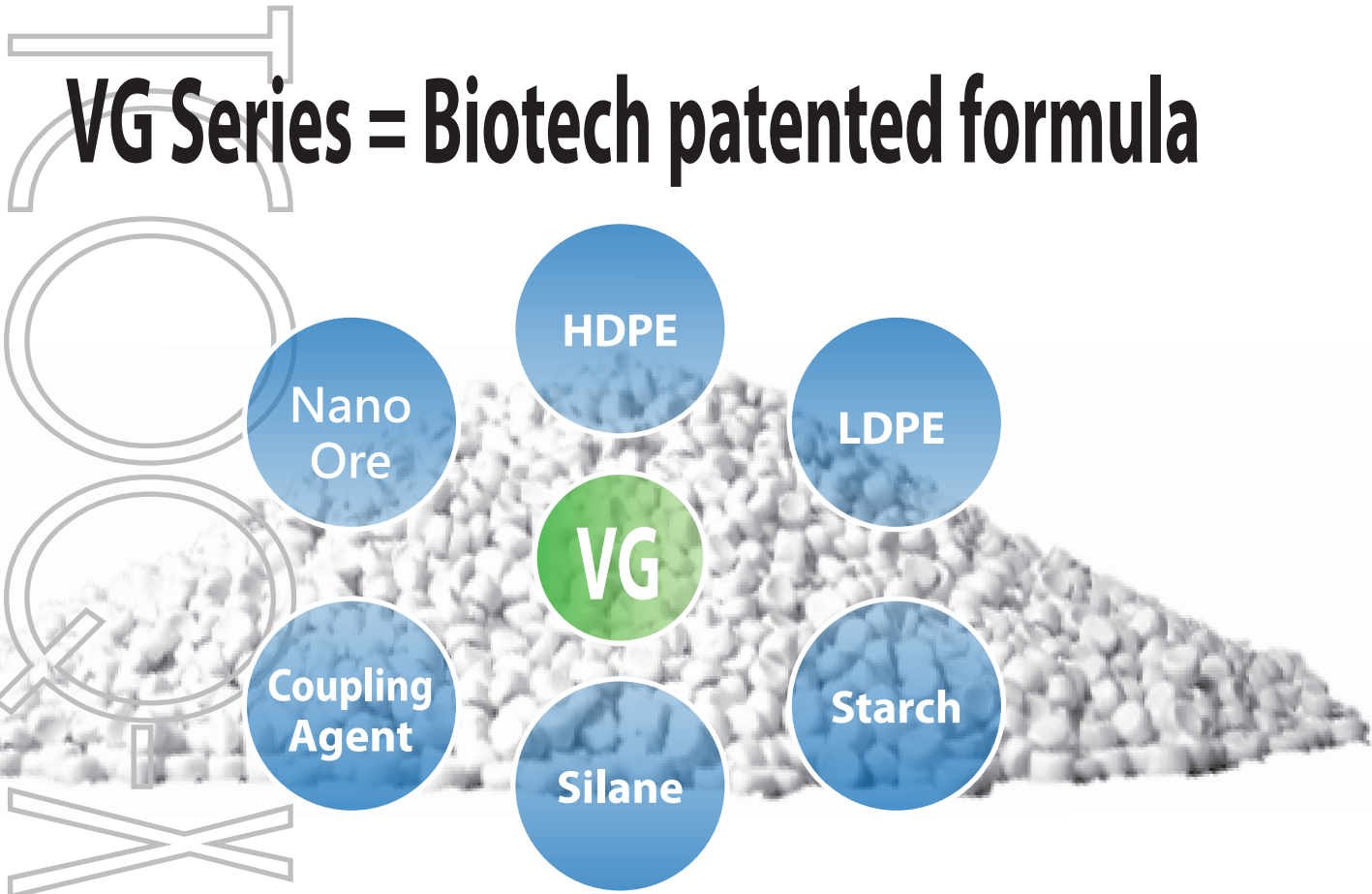
When you need a long planting & fertilizing, wasting more energy to manufacture plastic pellets, Degradation produce large amounts of methane still environmentally friendly?

VG Series using natural ore, which is the most natural material on earth, it does not need to wait for planting time, no chemical formulation to stabilize the finished product, after decomposition No toxic byproducts, truly ECO Friendly non-toxic biological product !!



TCOQ-X® VG Series

VG Series = Biotech patented formula



TCOQ-X® VG Turn Toxic plastics into ECO Friendly!

- Natural non-toxic - natural substrate without plasticizing agent RoHS compliance
- Quality and stability - patented formula to ensure production quality
- Fast delivery - Plastic Masterbatch molding fast delivery
- Immediate Availability - existing machine immediately with no need to modify
- Biotech - bacterial-type decomposition of environmental pollution
- Preservation - finished products can be stored without deterioration 5 years
- Recycling - Does not pollute the finished product made of recyclable plastic pellets
- Incineration - non-toxic, smoke-free white powder (alkaline)
- Painless upgrade - Unbeatable low price



TCOQ-X[®] VG Table of Contents

VG does not change the molecular structure of plastic products, trace strengthen product composition and structure
 VG does not affect the strength of the original product, the product is a translucent mist-like.

| TCOQ-X [®] VG | |
|------------------------|---|
| Main ingredient | Nano Ore, HDPE, LDPE, TCoQ-X |
| Sub-component | Coupling agent, Starch, SiCH ₄ |
| Shape | Granular plastic/ 3.0– 5.0 mm |
| Color | Gray pearl |
| Melting point | 130 °C |
| Proportion | ASTM D1505 1.6 g/cm ³ |
| Flow index | ASTM D1238 12 / 150 Degree |
| Black spot rate | L J-1201 0/10g |
| Moisture | 0.2% |
| PH value | 6.9 |



TCOQ-X® VG Series

7 Categories recyclable plastic materials



Pipes



Trash Can



PET bottles



Plastic Bag



Cup lid



Trays



ABS luggage



PC Canisters





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Company Overview

Tectonic Opto Electronics, established in 1996, is located in the Wenzhou bridge industrial zone, north Baixiang town, in Zhejiang province. Tectonic's HQ is setting on more than 100,000 square meters, with more than 300 office staffs inclusive of more than 50 professional engineers in our company. Our company has passed ISO9001-2000 authentication in 2000. We have always been the OEM (Original equipment manufacturer) supplier of HOME DEPOT in America since 1998.

Tectonic's production team employees more than 1,800 staff, 200 technical management staff to ensure quality on our production lines. Our design philosophy is always with the world simultaneously. Through persevering efforts, we have become one of the largest suppliers in LED lighting field, one of top five in mainland China, and also won the trust of our customers because of excellent quality and prompt delivery on massive production orders.

Vesta Global Limited was established in 2004, Company successfully developed world's only natural mineral-based biodegradable plastics patented formula, the achievements of the world's latest biotechnology. This patented formula uses the bacterial decomposition, decompose into carbon dioxide & water & biomass materials to the environment & ecology beneficial products.

Customer, integrity, innovation, team play and open-ness constitute our core values. Tectonic Group thrives to provide the best sales and after-sale service. Through these values, we firmly believe we'll create a mutual business relationship clients gladly agrees, in which business value can be maximized, leading us to the ultimate business continuity.

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Nanotechnology degradable
eco-pellet plastic polymer

TOOX



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鈦達鋰光電科技企業 **TECTONIC LED Corp**

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