

# BACTOSTAT®

High Softness & High Impact

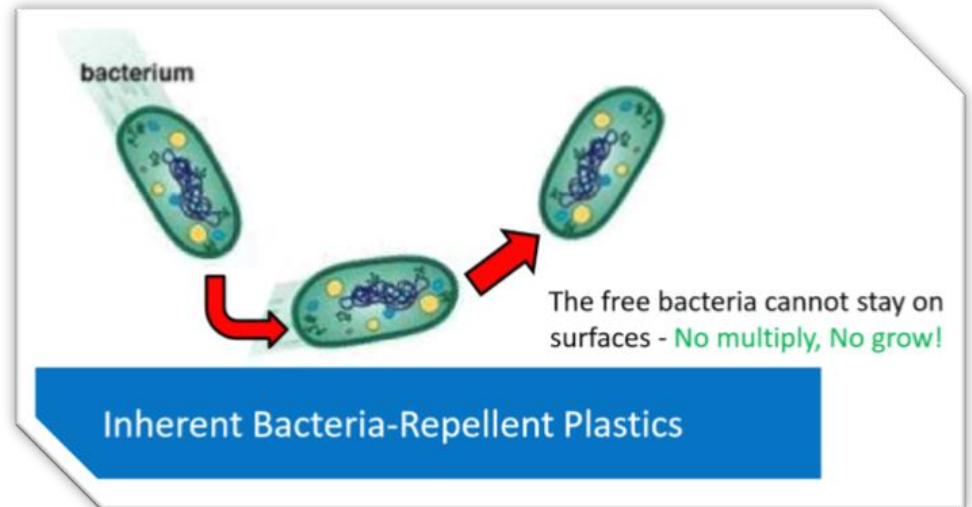
Bacteria Repellent PP RP6034



# BACTOSTAT<sup>®</sup> Bacteria Repellent Polymers



BACTOSTAT<sup>®</sup> is a series of polymers with build-in food-contact-safe and eco-friendly ingredients, leveraging bacteria repellent and self-hygienic characteristic and provides fungi repellent function.



# BACTOSTAT<sup>®</sup> Bacteria Repellent Polymers

BACTOSTAT<sup>®</sup> contains No Biocide , No Nanoparticles with advantages in Metals-free, Non-leaching, Recyclable.



# BACTOSTAT® Bacteria Repellent Polymers

## SUPER HIGH IMPACT TRANSPARENT PP

### BACTOSTAT® RP6034

#### Characteristics :

- ✧ Bacteria repellent
- ✧ Antifungal
- ✧ High softness
- ✧ High impact resistance
- ✧ High transparency
- ✧ Good chemical resistance
- ✧ Good processability
- ✧ Food contact safe



# BACTOSTAT® Bacteria Repellent Polymers

**SUPER HIGH IMPACT TRANSPARENT PP**

**BACTOSTAT® RP6034**

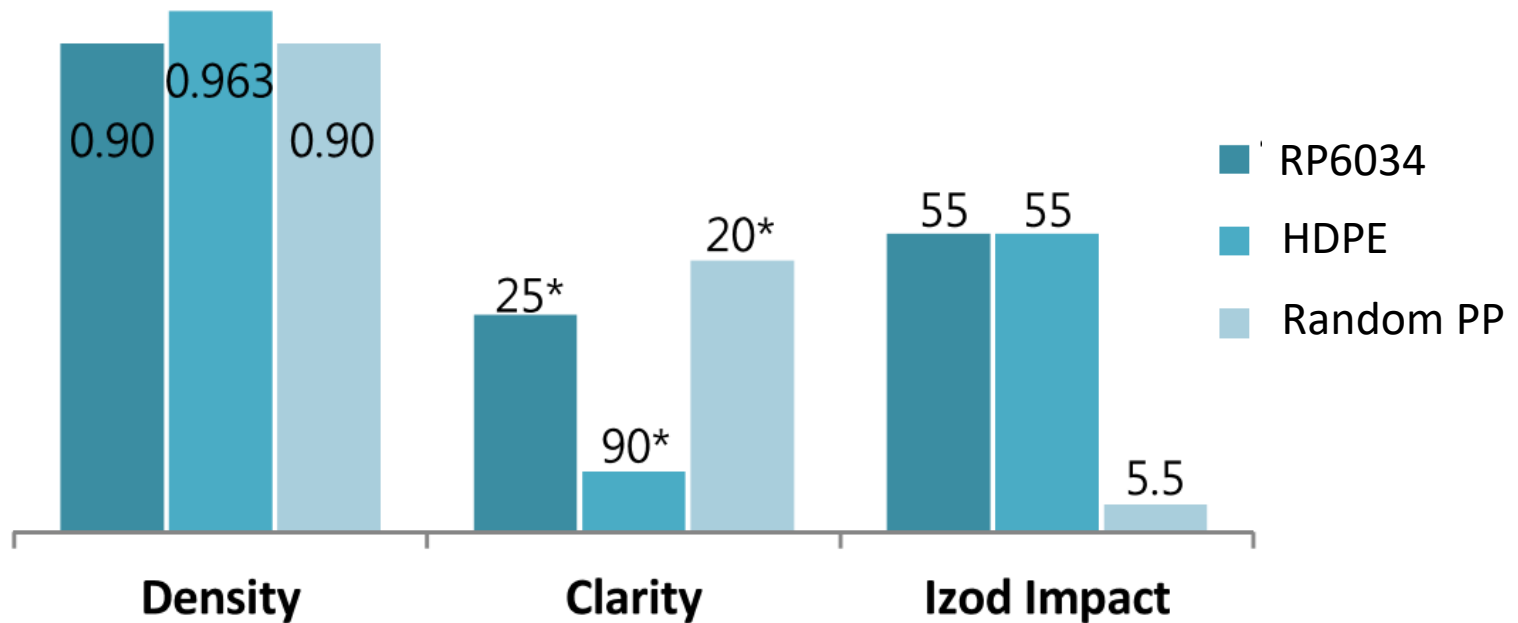
**Replacing HDPE in EBM applications  
for transparent detergent/reagent bottles**



# BACTOSTAT<sup>®</sup> Bacteria Repellent Polymers

## SUPER HIGH IMPACT TRANSPARENT PP

### BACTOSTAT<sup>®</sup> RP6034



\* Value of clarity expressed in the reciprocal of haze value.

# BACTOSTAT® Bacteria Repellent Polymers

**SUPER HIGH IMPACT TRANSPARENT PP**

**BACTOSTAT® RP6034**

**for transparent squeezable bottles/tubes**

Features :

- ✓ Bacteria repellent up to 99.9%
- ✓ Reduce risk of contamination
- ✓ Transparent
- ✓ Skin-touch-safe
- ✓ Food-contact-safe
- ✓ See-through
- ✓ Durable & Recyclable



# BACTOSTAT<sup>®</sup> Bacteria Repellent Polymers

**intertek**  
Total Quality. Assured.

## TEST REPORT

Applicant: DRAGONCHEM LIMITED  
UNIT 3 9/F TRUST CTR  
912-914 CHEUNG SHA WAN RD  
KLN HK

Number: H#  
Date: M#

Attn: DERICK YIP

Submitted sample said to be :  
Item Name : **RP6034(Lot#CW901263) - BACTOSTAT F**  
Quantity : 16 pieces  
Manufacturer : THE HONG KONG POLYMER SCIENCE L  
Buyer : VICTAMAX LLC  
Country of Origin : Hong Kong SAR

Conclusion:  
The submitted sample was tested under the following requirements requested by the applic stated in the remark and attached page(s) for details :

- Requirement  
(1) ASTM WK66122  
-Determining the Bacterial-Repellent Activity on the Surface of Treated Polymeric Materials

Decision Rule(s):  
When a statement of conformity to a specification or standard is provided on test report, the decision rule sha to Intertek's "Decision Rule Document" and is available on Intertek's website. <https://intertek.com/hk/decision>. If decision rule already inherent in the requested specification or standard, Intertek's "Decision Rule Document" was shown as above table.

For and on behalf of :  
Intertek Testing Services HK Ltd.

Cindy I.K. Chan  
Vice President

Intertek Testing Services Hong Kong Limited  
2/F Garment Centre  
576 Castle Peak Road  
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**intertek**  
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## TEST REPORT

Number : HKGH02722619

- (1) Determining the Bacterial-Repellent Activity on the Surface of Treated Polymeric Materials

Test Standard : ASTM WK66122.

Sterilization of sample prior to testing by wiping with 70% ethanol in water.  
Test culture: *Escherichia coli* (ATCC 8739)  
*Staphylococcus aureus* (ATCC 6538P)

Inoculum suspension medium: 1/500 nutrient broth  
Inoculum concentration: 10<sup>8</sup> - 10<sup>7</sup> CFU/mL  
Test specimen: 50 mm x 50 mm flat square of submitted sample  
50 mm x 50 mm flat square of untreated sample as control

Test condition: 0.4 mL bacterial inoculum was added onto one surface of 1 test specimen sample, then covered with sterile 40 mm x 4 plastic cover film

Swab / Neutralizing solution: Lethen Broth  
Contact time / temperature: 24 hours / 35°C  
Agar medium: Plate Count Agar  
Incubation period / temperature of agar: 48 hours / 35°C

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Total Quality. Assured.

## TEST REPORT

Number : HKGH02722619

Result :

| Test microorganism  | <i>Escherichia coli</i> (ATCC 8739) |                      |                      |                       |         |         |
|---|-------------------------------------|----------------------|----------------------|-----------------------|---------|---------|
| Concentration of inoculum   | 8.6x10 <sup>8</sup> CFU/mL          |                      |                      |                       |         |         |
|   | Untreated test specimen             |                      |                      | Treated test specimen |         |         |
|   | Trial 1                             | Trial 2              | Trial 3              | Trial 1               | Trial 2 | Trial 3 |
| Number of viable bacteria recovered (CFU/mL)  | 5.20x10 <sup>2</sup>                | 7.30x10 <sup>2</sup> | 8.00x10 <sup>2</sup> | <10                   | <10     | <10     |
| Average of three trials (CFU/mL) C  | 6.83x10 <sup>2</sup>                |                      |                      | <10                   |         |         |
| Number of viable bacteria recovered (CFU/cm <sup>2</sup> ), N = (C x 100) / 1600                            | 42.7                                |                      |                      | 0.625                 |         |         |
| Bacterial-Repellent Rate, BRR = (N <sub>control</sub> - N <sub>sample</sub> ) / N <sub>control</sub> X 100% |                                     |                      |                      | 98.5%                 |         |         |

| Test microorganism  | <i>Staphylococcus aureus</i> (ATCC 6538P) |                     |                      |                       |         |         |
|---|---|---------------------|----------------------|-----------------------|---------|---------|
| Concentration of inoculum   | 5.2x10 <sup>8</sup> CFU/mL                |                     |                      |                       |         |         |
|   | Untreated test specimen                   |                     |                      | Treated test specimen |         |         |
|   | Trial 1                                   | Trial 2             | Trial 3              | Trial 1               | Trial 2 | Trial 3 |
| Number of viable bacteria recovered (CFU/mL)  | 2.54x10 <sup>4</sup>                      | 1.4x10 <sup>4</sup> | 3.00x10 <sup>4</sup> | <10                   | <10     | <10     |
| Average of three trials (CFU/mL) C  | 3.16x10 <sup>4</sup>                      |                     |                      | <10                   |         |         |
| Number of viable Bacteria recovered (CFU/cm <sup>2</sup> ), N = (C x 100) / 1600                            | 1975                                      |                     |                      | 0.625                 |         |         |
| Bacterial-Repellent Rate, BRR = (N <sub>control</sub> - N <sub>sample</sub> ) / N <sub>control</sub> X 100% |   |                     |                      | 99.9%                 |         |         |

Sample received condition: Samples in closed plastic bags.

Date sample received : May 06, 2021  
Testing period : May 10, 2021 to May 18, 2021

**Bacteria Repellent Rate of E.Coli = 98.5%**  
**S.Aureus = 99.9% under ASTM WK66122 test**



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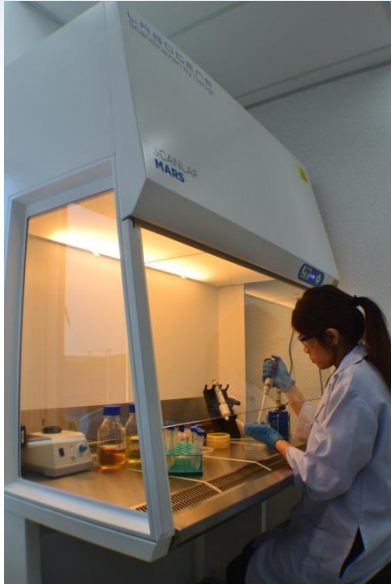
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**VICTAMAX**



# BACTOSTAT® Bacteria Repellent Polymers



Our professional team is ready to bring the integrate solution from product design, regulatory compliance to final product production, for your development to earn the prestige market position towards today competitive market environment.

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BACTOSTAT®

Innovative, Safe, Eco-Friendly, Durable  
Antibacterial Solution  
Your Clear Alternative !



[www.BACTOSTAT.com](http://www.BACTOSTAT.com)

