

TEST REPORT

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

Number: HKGH02868052

Date: May 03, 2022

Attn: DERICK YIP

Submitted sample said to be :
Item Name : **PBT-T2 Lot No.CX903091 - BACTOSTAT PBT RESIN**
Quantity : 16 pieces
Buyer : VICTAMAX LLC
Country of Origin : HONG KONG

Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) ASTM WK66122 -Determining the Bacterial-Repellent Activity on the Surface of Treated Polymeric Materials	See details enclosed

Decision Rule(s):

When a statement of conformity to a specification or standard is provided on test report, the decision rule shall be applied. For details, please refer to Intertek's "Decision Rule Document" and is available on Intertek's website. <https://intertekhk.qrd.by/decision-rule-doc..>
If decision rule already in hered in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "∞" was shown as above table.

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



Cindy I.K. Chan
Vice President



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(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: $10^6 - 10^7$ CFU/mLTest 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 the test specimen sample, then covered with sterile 40 mm x 40 mm plastic cover film

Swab / Neutralizing solution: Letheen 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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Result :

Test microorganism	<i>Escherichia coli</i> (ATCC 8739)					
Concentration of inoculum	7.5x10 ⁶ 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/device)	4.10x10 ²	3.90x10 ²	4.40x10 ²	<10	<10	<10
Average of three trials (CFU/device), C	4.13x10 ²			<10		
Number of viable bacteria recovered (CFU/cm ²), N = (C x 100) / 1600	25.8125			0.625		
Bacterial-Repellent Rate, BRR = (N _{control} - N _{sample}) / N _{control} x 100%				97.6%		

Test microorganism	<i>Staphylococcus aureus</i> (ATCC 6538P)					
Concentration of inoculum	7.6x10 ⁶ 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/device)	2.68x10 ⁵	1.26x10 ⁵	1.42x10 ⁵	<10	<10	<10
Average of three trials (CFU/device), C	1.79x10 ⁵			<10		
Number of viable bacteria recovered (CFU/cm ²), N = (C x 100) / 1600	11187.5			0.625		
Bacterial-Repellent Rate, BRR = (N _{control} - N _{sample}) / N _{control} x 100%				99.99%		

Sample received condition: Samples in closed plastic bags.

Date sample received : Apr 25, 2022

Testing period : Apr 25, 2022 to Apr 29, 2022



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End of report

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