

TEST REPORT

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

Number: HKGH02947982

Date: Nov 30, 2022

Attn: DERICK YIP

Sample and Information provided by customer :
Item Name : **BACTOSTAT PBT RESIN**
Model No. : **PBT-T8**
Quantity : 8 pieces
Manufacturer : THE HONG KONG POLYMER SCIENCE LTD.
Buyer : VICTAMAX LLC
Country of Origin : HONG KONG

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



Cindy I.K. Chan
Vice President



TEST REPORT

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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 inhaled in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "∞" was shown as above table.



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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: *Staphylococcus aureus* (ATCC 6538P)
 Inoculum suspension medium: 1/500 nutrient broth
 Inoculum concentration: $10^6 - 10^7$ 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 the test specimen sample, then covered with sterile 40 mm x 40 mm 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

Result :

Test microorganism	<i>Staphylococcus aureus</i> (ATCC 6538P)					
Concentration of inoculum	8.0×10^6 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)	1.25×10^5	1.60×10^5	1.93×10^5	<1	<1	<1
Average of three trials (CFU/device), C	1.59×10^5			<1		
Number of viable bacteria recovered (CFU/cm ²), $N = (C \times 100) / 1600$	9937.5			0.0625		
Bacterial-Repellent Rate, $BRR = (N_{control} - N_{sample}) / N_{control} \times 100\%$				99.999%		

Sample received condition: Samples in closed plastic bags.

Date sample received : Nov 01, 2022

Testing period : Nov 23, 2022 to Nov 30, 2022



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End of report

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