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Die Akkreditierung gilt für die in der Urkundenanlage D-PL-11217-03-00 aufgeführten Prüfverfahren.

Kiwa GmbH, Tannenweg 22m (Speicher I), 18059 Rostock

MEKANIKA MAKINA YAY VE MAK.ELEMAN.SAN.TIC.LTD
MEHMET TURNA
CEVIZLI MAH.BAGDAT CAD. YAVUZ SOK
NO.14 MALTEPE
ISTANBUL MALTEPE, 34846
Turkey

Test report 122300802-0001

Client:	Mekanika Makina Istanbul, Turkey
Date:	03/18/2023
Purpose of test [a]:	examination of material according to KTW-BWGL (07 March 2022), point 5.6.3 procedure 2; microbial growth DIN EN 16421:2015-05
Project number [a]:	PC000148991
Material [a] [k]:	Granula Virgin PTFE
Sample was taken by [a]:	Sent by the client
Date of sample receipt:	09/15/2023
Date of analysis:	10/26/2023 to 01/18/2024
Place of testing:	Kiwa GmbH Unit Analytik und Umwelt 18059 Rostock, Tannenweg 22m (Speicher I)
This test report was created by:	Rika Rüß

[a] information of the client [k] amendment

1. Examined product:

Sample description [a)]:	PTFE Gaskets 15, P2 (Gasket/Washer)
Base material [a) k)]:	Granula Virgin PTFE
Manufacturer of material [a)]:	Mekanika Makina
Production place [a)]:	Istanbul, Turkey
Proposed use of the product:	Drinking water distribution
Sampling out of:	Information not provided
Production date [a)]:	Information not provided
Lot / Batch number [a)]:	Information not provided
Sampling date [a)]:	Information not provided
Date of sample receipt:	09/15/2023
Sampling [a)]:	Sent by the client

2. Composition evaluation

The results of the composition evaluation are not the subject of this test report.

3. Results of the testing

Table 1: Test results

Duration		1-Month value	2-Month value	3-Month value
		date 23-11-2023	date 21-12-2023	date 18-01-2024
1-Month samples	Start exposure 26-10-2023	0,02 ml (1st preparation) 0,02 ml (2nd preparation) 0,02 ml (average **1a**) >1,5 ml (positive control) <0,01 ml (negative control)	<0,01 ml (1st preparation) <0,01 ml (2nd preparation) <0,01 ml (average **1b**) >1,5 ml (positive control) <0,01 ml (negative control)	0,01 ml (1st preparation) <0,01 ml (2nd preparation) <0,01 ml (average **1c**) >1,5 ml (positive control) <0,01 ml (negative control)
2-Month samples			<0,01 ml (1st preparation) <0,01 ml (2nd preparation) <0,01 ml (average **2a**) >1,5 ml (positive control) <0,01 ml (negative control)	
3-Month samples				0,02 ml (1st preparation) <0,01 ml (2nd preparation) 0,01 ml (average **3a**) >1,5 ml (positive control) <0,01 ml (negative control)

Surface swabs were taken from all samples with a result < 0.01 ml and surface colonization could be proven for all of them.

The examined sample Mekanika Makina manufactured from Granula Virgin PTFE meets the requirements of KTW-BWGL (07 March 2022) – Method 2; 5.6.3 for M1 products.

Yours sincerely

Astrid Schwaneberg
- Digitally signed | see http://ca.kiwa-deutschland.de for more details -

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i.V. Astrid Schwaneberg
Dipl.-Chemist
Deputy Head of Laboratory

4. Threshold Values - DIN EN 16421:2015-05 and KTW-BWGL (March 7, 2022) / 5.6.3 table 3b

		1-Month value	2-Month value	3-Month value
M 1		all results ≤ (0,05 + 0,02) ml / 800cm^2		
M 2		≤ (0,12 + 0,03) ml / 800cm^2 if 1a ≥ 1b, 1a will not be subject to evaluation	≤ (0,12 + 0,03) ml / 800cm^2 when 1c ≤ 1b	≤ (0,12 + 0,03) ml / 800cm^2 when 3a ≤ 2a
M 3		≤ (0,20 + 0,03) ml / 800cm^2 if 1a ≥ 1b, 1a will not be subject to evaluation	≤ (0,20 + 0,03) ml / 800cm^2 when 1c ≤ 1b	≤ (0,20 + 0,03) ml / 800cm^2 when 3a ≤ 2a
Positive control (Paraffin on stainless steel plates)		≥ 1,5 ml / 800cm^2	≥ 1,5 ml / 800cm^2	≥ 1,5 ml / 800cm^2
Negative control (stainless steel)		≤ 0,01 ml / 800cm^2	≤ 0,01 ml / 800cm^2	≤ 0,01 ml / 800cm^2

Remark: all threshold values are arithmetic means.