

#### Test report n°: 21RP01127 dated 15/04/2021

Dear **Parx Plastics Europe BV** Hig Goudsesingel 46 (unit 17) 3011KD Rotterdam ()

#### Acceptance Data

Subject of the test: TextilesTransport: CustomerDate of arrival: 12/03/2021Time of arrival: 13.33Acceptance date: 12/03/2021



#### Sample data (C)

Description: Treated sample PA

#### Sampling data

Sampling by: Customer Place: Customer location



CHIMICAMBIENTE SRL – Legal and operational headquarters: Via Leonardo da Vinci, 2 – 35042 ESTE (PD) Tel. 0429 600482 - CF,P.IVA, n°Iscr. Reg. Imp. 04856580289 R.E.A. 424206 - SDI: M5UXCR1 www.chimicambiente.net - e.mail: info@chimicambiente.net - pec: chimicambientesrl@pec.it



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Parameter - Specification Method - Notes	M.U.	Results Notes	LoQ	LoD	Test start Test end
Antiviral activity (e) ISO 18184:2019	S	ee Test report n 2100036/01 of 14/04/2021	P		12/03/21 14/04/21

If the sampling is not the responsibility of Chimicambiente S.r.I., the latter declines all responsibility for the information relating to sampling as provided by the Customer; the results of the tests refer exclusively to the sample as received. When these data include measurements that impact on the unit of measurement, the results expressed are obtained by processing them. The acceptance data are the responsibility of the Laboratory while the data relating to the sample are marked with a "C" if it is the responsibility of the Customer.

If the sample is unsuitable but the Customer chooses to continue anyway, the laboratory declines all responsibility for the results that could be influenced by the deviation.

LEGEND: U.M. = unit of measurement; (sup) = upper limit; (inf) = Lower Limit; LoQ = limit of quantification, is the lower concentration limit above which it is possible to obtain a quantitative measurement instrumentally; in microbiology the LoQ is theoretical in nature; LoD = limit of detection, it is the lower concentration limit below which the sample cannot be detected; in qualitative analyzes it represents the minimum concentration at which it is possible to determine or not the presence of an analyte; NQ = not quantifiable, indicates a value lower than LoQ; NR = not detectable, indicates a value lower than LoD; "< x" or "> x" respectively indicate a value lower or higher than the measurement range of the test, where x is the result; N.A. = not applicable to the test; M.I. = internal method.

(m): Indicates a change from the previous version of the test report. (e): Indicates that the test/activity was performed under subcontract.

The analytical results refer exclusively to the sample under test.

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The samples are kept in the laboratory for 2 weeks from the end of the test, unless otherwise indicated.

The records of the tests carried out are kept by the laboratory for 5 years from the issue of the test report.

IF NOT DIFFERENTLY SPECIFIED: the results of this test report are not correct for the recovery factors (R) as the recovery values fall within the tolerance indicated in the test method; the summations are calculated using the lower bound criterion (L.B.); the values fif present on the test report) reported in the "uncertainty" column refer to the expanded uncertainty with coverage factor K approximated to 2, probability level = 95%; the sampling report is identified and filed with the same sample acceptance code or with the relative order number.

The uncertainty is expressed in units of measurement of the parameter to which they relate. The coverage factor is equal to k=2 with a probability range of 95%.

**Technical Director** 

Gioachin Dr. Carlo Chemist Ordine Interprov. Chimici del Veneto - Padova nº 860 SEZ. A

------ End of Test Report



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## CHIMICAMBIENTE S.R.L. VIA LEONARDO DA VINCI, 2 35042 - ESTE (PD) - IT

Test information				
MATERIAL	Polyamide			
ITEM	<section-header></section-header>			
TREATMENT	Active principle based on zinc			
METHOD	ISO 18184:2019 "Textiles – Determination of antiviral activity of textile products"			
Date of receipt	15 March 2021			
Samples	<ul> <li>Treated sample: 20 x 20 mm;</li> <li>Untreated sample: 20 x 20 mm;</li> <li>No sterilization as requested by the customer;</li> <li>Volume of test inocululm: 200 uL.</li> </ul>			
Conservation	Room temperature			
Test temperature	25°C ± 1°C			
Incubation temperature	37°C ± 1°C			
Viral strain	SARS-CoV-2_COV2019 ITALY/INMI1			
Permissive host cell line	VERO E6			
Contact time	2H			

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## Calculation of antiviral activity

Antiviral activity is calculated with the following formula:

 $M_{v} = Ig (V_{a}) - Ig (V_{c})$ 

where

 $M_{\nu}$  is the evaluation of antiviral activity

Ig (V<sub>a</sub>) logarithm of the mean of TCID50 of the three replicates at time T0 detected on the control

 $lg(V_c)$  logarithm of the mean of TCID50 of the three replicates at time T detected on the treated sample

Log TCID<sub>50</sub> inoculum: 6.8

Control test						
	Average	TCID <sub>50</sub>	Test valid if	Resu	lts	
	Log	/1mL				
	TCID <sub>50</sub>					
Untreated sample	4,00	104,00	(Lg TCID <sub>50</sub> Untreated -			
Treated sample	3.83	$10^{3,83}$	Lg TCID <sub>50</sub> Treated) $< 0.5$	0.17	Valid	

### Test results

	Time	Average Log TCID <sub>50</sub> Lg (V <sub>a</sub> )	TCID <sub>50</sub> / 1 mL	М	Test valid if
Untreated	T0	5,58	$10^{5,58}$	/	/
sample	T2	4,67	104,67	0,92	M<1.0





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	Time	Average Log TCID <sub>50</sub> Lg (V <sub>c</sub> )	TCID <sub>50</sub> /1 mL	$M_{v}$	% reduction versus T0
Treated sample	T2	2,50	10 <sup>2,50</sup>	3,08	99,92

Antiviral efficacy			
$3.0 > M_v \ge 2.0$	Good effect		
$M_v \ge 3.0$	Excellent effect		

This Test Report refers only to the sample tested; the name and description of the sample are declared by the Customer. This test report may only be reproduced in full; partial reproduction must be authorized with written approval by the Laboratory.  $^{\circ}$  Test in service (same Group).

Prato, 14 April 2021

End of test Report

The Responsible,

