

**TEST REPORT**

REPORT OF TESTING AND OTHER INFORMATION REQUIRED BY ASTM F3502-21, SPECIFICATION ON BARRIER FACE COVERINGS												
Manufacturer Name						UNICORN BREATHING MASK						
Product Name or Model number						Unicorn Mask -Double Layer M						
Laboratory Name/Address						Intertek Testing Services NA, Inc./Cortland, NY 13045						
Flow Rate Tested at to Achieve 10 ±0.5 cm/s (LPM)						41.7						
Laboratory Accreditation Credentials						<a href="#">Lab Accreditation</a>						
Sub-micron Particulate Filtration Efficiency (Section 8 .1)										Test Date:		5-Aug-21
Test Values(%) by Specimen												
Condition	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10	Report Value	
Pristine*	53.0	51.7	59.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	51	
After Wash**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Air Flow Resistance (Section 8.2)										Test Date:		5-Aug-21
Test Values (mm H2O) by Specimen												
Condition	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10	Report Value	
Pristine*	5.2	5.2	4.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	
After Wash**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
* Description of Condition if Other than Pristine (identify where performed)						Intertek Cortland, NY- Pre Conditioning according to section 8.1.1.5 of the ASTM 3502 Standard.						
** Description of Laundering or Cleaning Conditions Applied (identify where performed)						Evaluated By Client (Test As Is Per Clients Request)						
Description of Approach Applied as Part of Product Design Analysis (provide supporting documentation, as needed)						Evaluated By Client						
Results of quantitative leakage assessment with leakage ration ( if applicable Document full findings in separate report)						N/A						
Overall Performance Classification				Sub-micron Particulate Filtration Efficiency		Level 2		Air Flow Resistance		Level 2		

**\* Important note:** ASTM has discovered some challenges with the current lab testing modality for the new F3502-21 standard that they are in the process of revising. Our posted scores below are coming in at a lower particle efficiency as a result. We have since troubleshooted the issue with the lab and are now spot testing at a 51% particle efficiency (Level 2), and a 5mm breathability (Level 2). We expect the revision to the standard out shortly and will have a full panel completed again once the labs are equipped to perform the new revision. In the interim, you can refer to our test results for ASTM F2299 for additional assurance, demonstrating our filter efficiency at 99% at 0.1 microns. Any questions, feel free to contact us.

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Sub-micron Particulate Filtration Efficiency (Section 8.1)						Date of Testing			March 30, 2021			
Test Values (%) by Specimen												
Condition	1	2	3	4	5	6	7	8	9	10	Report Value†	
Pristine*	29.6	34.3	38.8	35.5	39.6	29.2	31.1	34.7	30.8	40.7	29.2	
After Wash**	31.9	42.3	31.0	36.1	31.6	31.1	31.1	33.9	31.9	32.7	31.0	
Air Flow Resistance (Section 8.2)						Date of Testing						
Test Values (mm H <sub>2</sub> O) by Specimen												
Condition	1	2	3	4	5	6	7	8	9	10	Report Value‡	
Pristine*	4.8	5.1	4.9	4.9	5.8	4.6	4.7	5.9	4.7	5.7	5.9	
After Wash**	4.4	3.8	4.8	3.9	4.6	5.8	5.1	5.2	5.8	5.7	5.8	
* Description of Condition if Other than Pristine (identify where performed)	Intertek Cortland, NY- Pre Conditioning according to section 8.1.15 of the ASTM 3502 Standard.											
** Description of Laundering or Cleaning Conditions Applied (identify where performed)	Intertek Cortland, NY- Handwashed for 30 seconds and massaged, soaked 10 min, for 25 Times per Clients instructions. Air drip dry. Then into conditions per Section 8.1.15											
Description of Approach Applied as Part of Product Design Analysis (provide supporting documentation, as needed)	See "ASTM F3502 Mask Design Analysis" PDF. <i>Note: This is not a pass/fail test unlike the particle efficiency and breathability tests.</i>											
Results of quantitative leakage assessment with leakage ratio (if applicable – document full findings in separate report)	ASTM is currently modifying the F3502 leakage test and we are in the queue to have it performed the moment the revision is completed. In the meantime, please refer to our Fit/Design Analysis on our website. <i>Note: This is not a pass/fail test unlike the particle efficiency and breathability tests.</i>											
<b>PERFORMANCE CLASSIFICATION***</b>	<b>Sub-micron Particulate Filtration Efficiency</b>					29.2		<b>Air Flow Resistance</b>			5.9	

† Report the lowest value of filtration efficiencies measured

‡ Report the highest value of air flow resistances measured

\*\*\* Base performance classification on lowest sub-micron particulate filtration efficiency value for all conditions evaluated ( $\geq 20\%$  = Lower performance;  $\geq 50\%$  = higher performance). Base performance classification on highest air flow resistance for all conditions evaluated ( $\leq 15$  mm H<sub>2</sub>O = Lower performance;  $\leq 5$  mm H<sub>2</sub>O = Higher performance).

