Disposable Protective Mask

ASTM F2100-19 Level 1

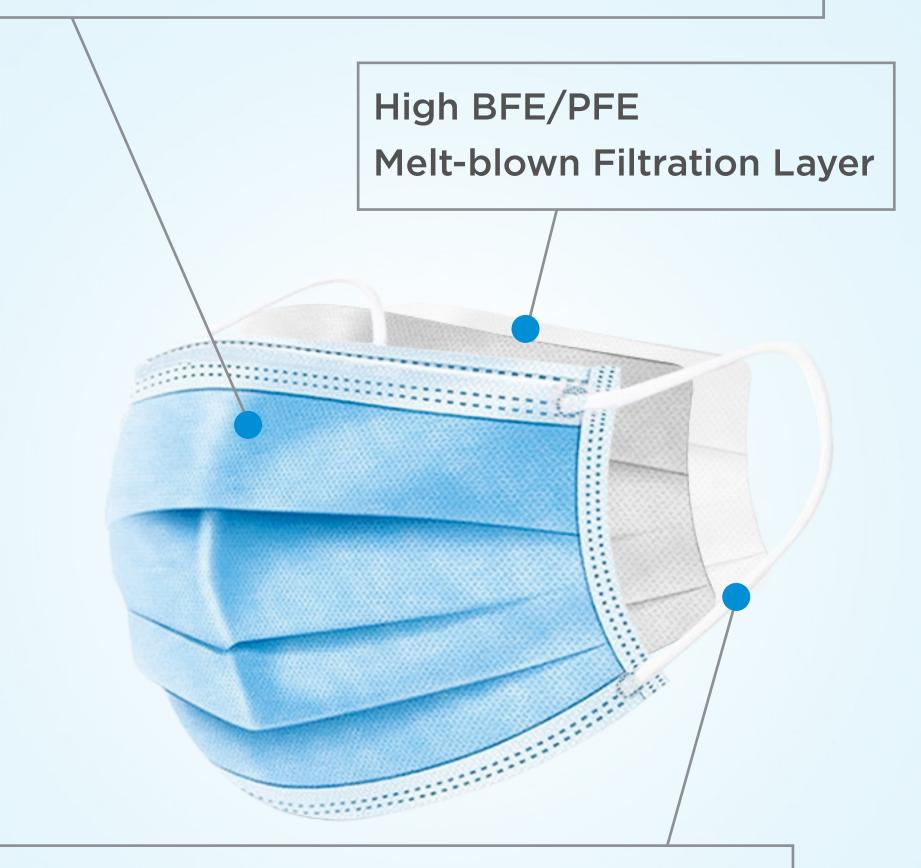
MAKE YOUR BREATH MORE COMFORTABLE

DYLCR

3M Certified Material Supplier **Nelson Lab** approved ASTM test report

Three layer filtration

Specialty High Fluid Resistance Outer-Layer for Blood Penetration Protection



Flat Earloop, More Comfortable for Longer time usage



Blue Mask w. Earloop





>95%

Bacterial Filtration Efficiency

>95%

Submicron Particle Filtration Efficiency <60

Differential Pressure

80mmHg Pass

Fluid Resistance (Splash Resistance Pressure) Class1

Flammability 16 CFR part 1610

Manufacturer Information

Zhejiang Dylor New Material Co., Ltd. is a specially designated material supplier for personal care products of **3M** in China.



Production region: Mainland China Production Market: Personal Care Materials Market

Authorization No. LkM8hzCN201912004 Check for Authenticity on www.3m.com.cn

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President:Stephen M.Shafer

3M China



Dylor Inc. has verified and declares that the above stated facility is registered with the US Food & Drug Administration, Center for Drug Evaluation and Research, Office of Drug Registration and Listing pursuit to the Code of Federal Regulation 21 CFR 207, on the data state above, and makes no other representations and warranties, nor does this certificate makes other representations and

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Dylor Inc. Expiration Date: 2020-12-31

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ASTM Level 1 reports by Nelson Lab.



Sponsor: Yingkai Tang Zhejlang Dylor New Materials Co., Ltd No. 153 Guang'An Road Tongxiang, Zheijang Province, CHINA

Bacterial Filtration Efficiency (BFE) and Differential Pressure (Delta P) Final Report

Test Article:	Disposable Protective Mask, DM20200101, Non-woven fabric 65%,
	Melt-blown fabric 35%, Batch number202005
Purchase Order:	20-577A
Study Number:	1306401-S01
Study Received Date:	03 Jun 2020
Testing Facility:	Nelson Laboratories, LLC
	6280 S. Redwood Rd.
	Salt Lake City, UT 84123 U.S.A.
Test Procedure(s):	Standard Test Protocol (STP) Number: STP0004 Rev 18
Deviation(s):	None

Summary: The BFE test is performed to determine the filtration efficiency of test articles by comparing the bacterial control counts upstream of the test article to the bacterial counts downstream. A suspension of Staphylococcus aureus was aerosolized using a nebulizer and delivered to the test article at a constant flow rate and fixed air pressure. The challenge delivery was maintained at 1.7 - 3.0 x 10³ colony forming units (CFU) with a mean particle size (MPS) of 3.0 ± 0.3 µm. The aerosols were drawn through a sixstage, viable particle, Andersen sampler for collection. This test method complies with ASTM F2101-19 and EN 14683:2019, Annex B.

The Delta P test is performed to determine the breathability of test articles by measuring the differential air pressure on either side of the test article using a manometer, at a constant flow rate. The Delta P test complies with EN 14683:2019, Annex C and ASTM F2100-19.

All test method acceptance criteria were met. Testing was performed in compliance with US FDA good manufacturing practice (GMP) regulations 21 CFR Parts 210, 211 and 820.

Test Side: Inside BFE Test Area: ~40 cm² BFE Flow Rate: 28.3 Liters per minute (L/min) Delta P Flow Rate: 8 L/min Conditioning Parameters: 85 ± 5% relative humidity (RH) and 21 ± 5°C for a minimum of 4 hours Test Article Dimensions: ~172 mm x ~155 mm Positive Control Average: 2.8 x 10³ CFU Negative Monitor Count: <1 CFU MPS: 2.8 µm



James Luskin electronically appr	oved	09 Jul 2020 14:52 (+00:00)
Study Director	James Luskin	Study Completion Date and Time
801-290-7500 nelsonlabs.com	sales@nelsonlabs.com	szh FRT0004-0001 Rev 22 Page 1 of 2

These results apply to the samples as received and relate only to the test article listed in this report. Reports may not be reproduced except in their entirety. Subject to NL terms and conditions at www.nelsonlabs.com



Study Number 1306401-S01 Bacterial Filtration Efficiency (BFE) and Differential Pressure (Delta P) Final Report

Results:

Test Article Number	Percent BFE (%)
1	97.4
2	98.1
3	98.7
4	99.5
5	99.8

Test Article Number	Delta P (mm H ₂ O/cm ²)	Delta P (Pa/cm ²)
1	3.9	37.9
2	3.8	37.3
3	3.9	37.8
4	3.8	37.3
5	3.8	37.7

The filtration efficiency percentages were calculated using the following equation:

$$\% BFE = \frac{C-T}{C} x \ 100$$

C = Positive control average T = Plate count total recovered downstream of the test article Note: The plate count total is available upon request

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szh FRT0004-0001 Rev 22 Page 2 of 2

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Sponsor: Yingkai Tang Zhejlang Dylor New Materials Co., Ltd No 153 Guang'An Rd. Tongxiang, Zheijang Province, CHINA

Synthetic Blood Penetration Resistance Final Report

Test Article:	Disposable Protective Mask, DM20200101, Non-woven fabric 65%, Melt-blown
	fabric 35%, Batch number202005
Purchase Order:	20-577A
Study Number:	1306405-S01
Study Received Date:	03 Jun 2020
Testing Facility:	Nelson Laboratories, LLC
	6280 S. Redwood Rd.
	Salt Lake City, UT 84123 U.S.A.
Test Procedure(s):	Standard Test Protocol (STP) Number: STP0012 Rev 09
Deviation(s):	None

Summary: This procedure was performed to evaluate surgical facemasks and other types of protective clothing materials designed to protect against fluid penetration. The purpose of this procedure is to simulate an arterial spray and evaluate the effectiveness of the test article in protecting the user from possible exposure to blood and other body fluids. The distance from the target area surface to the tip of the cannula is 30.5 cm. A test volume of 2 mL of synthetic blood was employed using the targeting plate method.

This test method was designed to comply with ASTM F1862 and ISO 22609 (as referenced in EN 14683:2019 and AS4381:2015) with the following exception: ISO 22609 requires testing to be performed in an environment with a temperature of 21 ± 5°C and a relative humidity of 85 ± 10%. Instead, testing was performed at ambient conditions within one minute of removal from the environmental chamber held at those parameters.

All test method acceptance criteria were met. Testing was performed in compliance with US FDA good manufacturing practice (GMP) regulations 21 CFR Parts 210, 211 and 820.

Number of Test Articles Tested: 32 Number of Test Articles Passed: 32 Test Side: Outside Pre-Conditioning: Minimum of 4 hours at $21 \pm 5^{\circ}$ C and $85 \pm 5^{\circ}$ relative humidity (RH) Test Conditions: 23.4°C and 22% RH



Brent Shelley electronically approved for		19 Jun 2020 17:1	4 (+00:00)
Study Director	James Luskin	Study Completion	Date and Time
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Study Number 1306405-S01 Synthetic Blood Penetration Resistance Final Report

Results: Per ASTM F1862 and ISO 22609, an acceptable quality limit of 4.0% is met for a normal single sampling plan when \geq 29 of 32 test articles show passing results.

Test Pressure: 80 mmHg (10.7 kPa)

Test Article Number	Synthetic Blood Penetration
1-32	None Seen

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FRT0012-0002 Rev 13 szh Page 2 of 2

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Sponsor: Yingkai Tang Zhejlang Dylor New Materials Co. Ltd. No 153 Guang'An Rd. Tongxiang, Zheijang, CHINA

Latex Particle Challenge Final Report

Test Article:	Disposable Protective Mask, DM202001 fabric 35%, Batch #202005	01, Non-woven	fabric 65% Melt-blown
Purchase Order:	20-577A		
Study Number:	1306403-S01		
Study Received Date:	03 Jun 2020		
Testing Facility:	Nelson Laboratories, LLC		
	6280 S. Redwood Rd.		
	Salt Lake City, UT 84123 U.S.A.		
Test Procedure(s):	Standard Test Protocol (STP) Number:	STP0005 Rev 0)7
Deviation(s):	Quality Event (QE) Number(s):	QE22125	

Summary: This procedure was performed to evaluate the non-viable particle filtration efficiency (PFE) of the test article. Monodispersed polystyrene latex spheres (PSL) were nebulized (atomized), dried, and passed through the test article. The particles that passed through the test article were enumerated using a laser particle counter.

A one-minute count was performed, with the test article in the system. A one-minute control count was performed, without a test article in the system, before and after each test article and the counts were averaged. Control counts were performed to determine the average number of particles delivered to the test article. The filtration efficiency was calculated using the number of particles penetrating the test article compared to the average of the control values.

The procedure employed the basic particle filtration method described in ASTM F2299, with some exceptions; notably the procedure incorporated a non-neutralized challenge. In real use, particles carry a charge, thus this challenge represents a more natural state. The non-neutralized aerosol is also specified in the FDA guidance document on surgical face masks. All test method acceptance criteria were met. Testing was performed in compliance with US FDA good manufacturing practice (GMP) regulations 21 CFR Parts 210, 211 and 820.

Test Side: Inside Area Tested: 91.5 cm² Particle Size: 0.1 µm Laboratory Conditions: 21°C, 31% relative humidity (RH) at 8:42 AM; 21°C, 31% RH at 9:50 AM Average Filtration Efficiency: 97.5% Standard Deviation: 0.15



McKenna Wild electronically approved for		23 Jul 2020 18:40	(+00:00)
Study Director	Curtis Gerow	Study Completion	Date and Time
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801-290-7500 nelsonlabs.com sales@nelsonlabs.com	I.	jhs	FRT0005-0001 Rev 6
			Page 1 of 2
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Study Number 1306403-S01 Latex Particle Challenge Final Report

Deviation Details: Controls and sample counts were conducted for one minute instead of an average of three one minute counts. This change shortens the total test time for each sample but will still provide an accurate determination of the particle counts. An equilibrate is a dwell period where the challenge is being applied to the test article for a certain period of time before test article counts are counted. The equilibrate period was reduced from 2 minutes to a minimum of 30 seconds which is sufficient time to clear the system of any residual particles, and establish a state of stable equilibrium before sample counts are taken. Test method acceptance criteria were met, results are valid.

Test Article Number	Test Article Counts	Average Control Counts	Filtration Efficiency (%)
1	301	12,535	97.6
2	307	12,876	97.6
3	360	13,233	97.3
4	348	13,150	97.4
5	339	13,500	97.5

Results:

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FRT0005-0001 Rev 6 jhs Page 2 of 2

ASTM Level 1 reports by Nelson Lab.



Sponsor: Yingkai Tang Zhejlang Dylor New Materials Co. Ltd. No 153 Guang'An Rd. Tongxiang, Zheijang, CHINA

Flammability of Clothing Textiles Final Report

Test Article:	Disposable Protective Mask, DM20200101, Non-woven fabric 65% Melt-blown
	fabric 35%, Batch #202005
Purchase Order:	20-577A
Study Number:	1306404-S01
Study Received Date:	03 Jun 2020
Testing Facility:	Nelson Laboratories, LLC
	6280 S. Redwood Rd.
	Salt Lake City, UT 84123 U.S.A.
Test Procedure(s):	Standard Test Protocol (STP) Number: STP0073 Rev 06
Deviation(s):	None

Summary: This procedure was performed to evaluate the flammability of plain surface clothing textiles by measuring the ease of ignition and the speed of flame spread. The parameter of time is used to separate materials into different classes, thereby assisting in a judgment of fabric suitability for clothing and protective clothing material. The test procedure was performed in accordance with the test method outlined in 16 CFR Part 1610 (a) Step 1 - testing in the original state. Step 2 - Refurbishing and testing after refurbishing, was not performed. All test method acceptance criteria were met. Testing was performed in compliance with US FDA good manufacturing practice (GMP) regulations 21 CFR Parts 210, 211 and 820.

Test Article Side Tested: Outside Surface Orientation: Machine

Test Criteria for Specimen Classification (See 16 CFR Part 1610.7):

Class	Plain Surface Textile Fabric
1	Burn time ≥3.5 seconds
2	Not applicable to plain surface textile fabrics
3	Burn time <3.5 seconds

The 16 CFR Part 1610 standard specifies that 10 replicates are to be tested if, during preliminary testing, only 1 test article exhibits flame spread and it is less than 3.5 seconds or the test articles exhibit an average flame spread less than 3.5 seconds. Five replicates are to be tested if no flame spread is observed upon preliminary testing, if only 1 test article exhibits flame spread and it is equal to or greater than 3.5 seconds, or if the average flame spread is equal to or greater than 3.5 seconds. In accordance with the standard, 5 replicates were tested for this study.



Sean Shepherd electronically approved for		06 Jul 2020 20:48 (+00:00)	
Study Director	Curtis Gerow	Study Completion	Date and Time
801-290-7500 nelsonlabs.com sales@nelsonlabs.c	com	jhs	FRT0073-0001 Rev 9 Page 1 of 2

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Study Number 1306404-S01 Flammability of Clothing Textiles Final Report

Results:

Replicate Number	Time of Flame Spread
1	DNI
2	DNI
3	DNI
4	DNI
5	DNI

DNI = Test Article did not ignite

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FRT0073-0001 Rev 9 jhs Page 2 of 2

Packaging & Shipping Size

50 pcs / box

40 boxes / Ctn Ctn Size: 57×38.5×37 CM

30 Ctns / Pallet (Can be changed upon request) Pallet Size: 42×48×93 IN. Pallet Weight: Approx. 800 lbs.

1 Pallet = 30 Ctns = 1200 boxes = 60000 pcs



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Sample Pallet Ex.