

NO: STC23080133

TEST REPORT

Product:	Full Face Respirator Mask Lens for PT-100	
Applicant:	Parcil Safety	

Applicant Add: 318 Main St, Suit 101, Evansville, IN 47708. US

Date of Report: 09/06/2023



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NOTES

1

The report is invalid without the stamp of "Inspection & Testing".

2

The report would be invalid if there is no signature of the authorized signature.

Not approved by this institution, the report shall not be copied (except in full text).

4

The report would be invalid if altered.

5

Different opinions about test report should be put forth to the institute within 15 days from the date of receiving the test report, Otherwise any request would be refused.

6

Except for sampling, the data and results in this report are only suitable for the samples provided by clients.

7

The data and results in this report are only used for scientific research, teaching, internal quality control and other activities, and have no proof effect on the society, if there is no CMA mark.





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Page 1 of 10

Report No. STC23080133

Date: 09/06/2023

Inspected Entity: Parcil Distribution

Address: 318 Main St, Suit 101, Evansville, IN 47708. US

The following sample(s) was /were submitted and identified on behalf of the client:

 Sample Name: Full Face Respirator Mask Lens for PD-100/PD-101/PT-100/PT-101/ ST-100X
 Style/Item No.: PD/PT-lens

 P.O./Ref.No.:
 -- Batch No.: --

 Producer: -- Trademark: --

Country of Origin: ---

Reception Date: 08/28/2023

Test Date: 08/28/2023~09/06/2023

Sample Quantity: 16 pairs

Type of Test: Entrusted Test

Sample Description: Types of eye-protectors: Full-facepiece respirator. The lens for PD-100, PD-101, PT-100, PT-101, ST-100X.

Buyer:

Conclusions: See test results summary.

Remarks:---



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Authorized Signature





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Page 2 of 10

Report No. STC23080133 1.The standard(s) of criterion:

Date:	09/06/2023

	No.	Standard No.	Standard Item
	1	ANGL/REA 797 1 2020	American National Standard for Occupational and
1	ANSI/ISEA 287.1-2020	Educational Personal Eye and Face Protection Devices	

2.The standard(s) of testing:

No.	Standard No.	Standard Item
1	ANSI/ISEA 787 1 2020	American National Standard for Occupational and
	ANSI/ISEA 207.1-2020	Educational Personal Eye and Face Protection Devices

3. Test results summary:

No.	Test Items	Comments
1.1	Optical quality	Pass
1.2	Luminous transmittance	Pass
1.3	Haze-clear lenses only	Pass
1.4	Refractive power	NR
1.5	Astigmatism	NR
1.6	Resolving power	NR
1.7	Prism	NR
1.8	Prism imbalance	NR
1.9	Drop ball impact resistance	Pass
1.10	Ignition	Pass
1.11	Corrosion resistance of metal components	NA
1.12	Minimum coverage area	Pass
1.13	Markings	NR
1.14	Light tightness	NA
1.15	Lateral (Side) coverage	Pass
1.16	High mass impact	Pass
1.17	High velocity impact	NA
1.18	Penetration test (lenses only)	Pass
1.19	Switching index	NA





Rep	ort No. STO	23080133 Date: 09/06/2	023 Page 3 of 10
	1.20	Droplet and splash	NA
	1.21	Dust hazard	NA
	1.22	Fine dust hazard	NA
	1.23	Anti-Fog properties	Pass







Report No. STC23080133 Detailed test results:

Date: 09/06/2023

Page 4 of 10

No.	Test Item/ method	Requirements		Unit	Re	sult	Comments
1.1	Optical quality ANSI/ISEA Z87.1-2020 9.1	Protector lenses sha bubbles, waves and which would impair	all be free of striae, other visible defects the wearer's vision.		М	eet	Pass
12	Luminous transmittance	>85		%	Right	91.2	Pass
1.2	ANSI/ISEA Z87.1-2020 9.2		≥85		Left	91.4	1 435
13	Haze-clear lenses only	<			Right	0.00	Pass
1.5	ANSI/ISEA Z87.1-2020 9.3		5	70	Left	0.02	1 455
1.4	Refractive power ANSI/ISEA Z87.1-2020 9.4	±0.	06	m ⁻¹	N	R	NR
1.5	Astigmatism ANSI/ISEA Z87.1-2020 9.4	≤0.06		m ⁻¹	N	R	NR
1.6	Resolving power ANSI/ISEA Z87.1-2020 9.4	Pattern 20			N	R	NR
1.7	Prism ANSI/ISEA Z87.1-2020 9.5	≤0.25		cm/m	N	R	NR
		Vertical Imbalance	≤0.125	am /m			
1.8	Prism imbalance ANSI/ISEA Z87.1-2020 9.5	Base In Imbalance	≤0.125	cm/m	N	R	NR
		Base Out Imbalance	≤0.50	cm/m			
1.9	Drop ball impact resistance ANSI/ISEA Z87.1-2020 9.6	The protector shall fail if any of the following occur when impacted by a 25.4 mm (1 in.) diameter steel ball when dropped from a height of 127cm (50 in.): • lens (lens only) fractures; • piece fully detached from the inner surface; • projectile penetrates the inner surface; • lens not retained.			М	eet	Pass

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Report No. STC23080133		Date: 09/06/2023		Page 5 of 10		
No.	Test Item/ method	Requirements	Unit	Result	Comments	
1.10	Ignition ANSI/ISEA Z87.1-2020 9.7	Protectors shall not ignite or continue to glow once the rod is removed. Each externally exposed material (exclusive of textiles or elastic bands) shall be tested.		Meet	Pass	
1.11	Corrosion resistance of metal components ANSI/ISEA Z87.1-2020 9.8	Metal components used in protectors shall be corrosion resistant to the degree that the function of the protector shall not be impaired by the corrosion and the protector can be worn as intended. Lenses and electrical components are excluded from these requirements.		No metal components	NA	
1 12	Minimum coverage area	The frames, lens housings or carriers and lens(es) shall cover in plain view an area of not less than 40 mm (1.57 in.) in width and 33 mm (1.30 in.) in height (elliptical) in front of each eye, centered on the pupil centers of the test headform.		Meet	Pass	
1.12	ANSI/ISEA Z87.1-2020 5.2.4	Frames, lens housing or carrier and lens(es) designed for small head sizes shall cover in plain view an area of not less than 34 mm (1.34 in.) in width and 28 mm (1.10 in.) in height (elliptical), centered on the pupil centers of the test headform		NA	1 455	
1.13	Markings ANSI/ISEA Z87.1-2020 5.3	All protectors shall bear the permanent and legible markings in specified locations as shown in Table 3. Markings for lens type and use applications shall be required only when claims for protection against the hazard or indicated use aremade by the manufacturer. The components of frames that are intended for prescription protector use shall be marked for size in accordance with the system described in ANSI/ISO 7998 / 8624 / 12870. Fronts shall be marked with the A-dimension (eye size) and DBL (distance between lenses). Temples shall be marked with their overall length.		NR	NR	



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Report No. STC23080133		Date: 09/06/2023		Page 6 of	f 10
No.	Test Item/ method	Requirements	Unit	Result	Comments
		Protector markings shall be placed in			
		relatable proximity to each other on the			
		product in the sequence			
		specified below:			
		Manufacturer's marks or logos			
		.Designation of standard (Z87 or Z87-2,			
		for prescription devices)			
		Coverage (See 5.2.4)			
		Optical level (See 6.1)			
		Optional Hazard-Specific Marks, as			
		applicable:			
		<pre>impact-protector marking(+)(See7.1)</pre>			
		optical radiation marking (See 7.2)			
		droplet and splash marking (See 7.3)			
		dust marking (See 7.4)			
		fine dust marking (See 7.5)			
		Optional Design Marks, as applicable:			
		Anti-fog treatment (See 6.2)			
		Manufacturer's marks or logos are exempt			
		from the proximity requirement if they are			
		clearly present elsewhere on the product.			
		Markings representative of other standards			
		shall not interfere with or be intermixed			
		with the markings required by this standard.			
		Examples of acceptable and not acceptable			
		product markings can be found in			
		Annex L.			
		Prescription lens carriers used behind plano			
		protectors shall be marked with the			
		manufacturer's mark or logo but shall not			
		be marked with other Z87 markings.			
		The welding protector shall be held firmly			
		against the seal of the test apparatus and			
		examined for direct light leakage between			
1 1 4(1)	Light tightness	the lenses, gaskets or other components.		NIA	NIA
1.14	ANSI/ISEA Z87.1-2020 9.9	The test shall be performed in a darkened		INA	NA
		room to verify a light tight design when			
		viewed from any angle. One complete			
		device shall be tested.			

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Report No. STC23080133		Date: 09/06/2023		Page 7 of 10		
No.	Test Item/ method	Requirements	Unit	Result	Comments	
1.15	Lateral (Side) coverage ANSI/ISEA Z87.1-2020 9.10	Impact rated protectors shall provide continuous lateral coverage (i.e. no openings greater than 1.5 mm (0.06 in.) in diameter) from the vertical plane of the lenses tangential to a point not less than 10 mm (0.39 in.) posterior to the corneal plane and not less than 10 mm (0.39 in.) in height (or 8 mm(0.32 in.) for the smaller headform) above and not less than 10 mm (0.39 in.) in height (or 8 mm(0.32 in.) for the smaller headform) below the horizontal plane centered on the eyes of the head-form. The probe shall not contact the headform within the defined coverage area. (See Annex D)		Meet	Pass	
1.16	High mass impact ANSI/ISEA Z87.1-2020 9.11	 The complete device shall meet the protector acceptance criteria when impacted by a pointed projectile weighing a minimum of 500 g (17.6 oz)dropped from a height of at least 127 cm (50.0 in.). A complete device shall fail if any of the following occurs: any part, fragment or material visible to the unaided eye becomes detached from the inner surface of any complete device, as determined by inspection of the device or of the contact paste; fracture; penetration of the inner surface either by the projectile passing completely through the lens, frame or housing component, or by rupture of the inner lens surface; lens not retained. 		Meet	Pass	

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Report No. STC23080133		Date: 09/06/2023		Page 8 of 10		
No.	Test Item/ method	Requirements	Unit	Result	Comments	
		The complete device shall meet the				
		protector acceptance criteria when impacted				
		by either steel ball traveling at its respective				
		velocities specified in Table 6. A complete				
		device shall fail if any of the following				
		occurs:				
		• any part, fragment or material visible to				
		the unaided eye becomes detached from the				
		inner surface of any complete device, as				
		determined by inspection of the device or of				
	High velocity impact	the contact paste;		NTA .		
1.1/	ANSI/ISEA Z87.1-2020 9.12	 fracture; 		NA	NA	
		 penetration of the inner surface either 				
		by the projectile passing completely				
		through the lens, frame or housing				
		component, or by rupture of the inner lens				
		surface;				
		 lens not retained; 				
		• for the high-velocity test, the unaided eye				
		observer any piece adhering to the contact				
		paste, or observes contact paste on the				
		projectile or complete device.				
		Lenses for all complete devices shall meet				
		the protector acceptance criteria when				
		penetrated by a weighted needle with				
		minimum a total weight of 44.2 g (1.56 oz)				
		dropped from a height of at least 127 cm				
		(50.0 in.). A complete device shall fail if				
		any of the following occurs:				
		• any part, fragment or material visible to				
1.18	Penetration test (lenses only)	the unaided eye becomes detached from the		Meet	Pass	
	ANSI/ISEA Z87.1-2020 9.13	inner surface of any complete device, as				
		determined by inspection of the device or of				
		the contact paste;				
		• fracture;				
		• penetration of the inner surface either				
		by the projectile passing completely				
		through the lens, frame or housing				
		component, or by rupture of the inner lens				

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Report No. STC23080133		Date: 09/06/2023	Page 9 of 10		
No.	Test Item/ method	Requirements	Unit	Result	Comments
		surface;			
		 lens not retained. 			
1.10(1)		The switching index from the lightest state			
		of the automatic darkening welding filters			
		to the darkest state of the device shall meet			
	Switching index	the requirements of Table 12 when tested at		NTA	NA
1.19	ANSI/ISEA Z87.1-2020 9.15	temperatures of: .		NA	NA
		-5°C±2 °C (23 F±3.6 F);			
		23°C±2 °C (73.4 F±3.6 F); and			
		55°C±2 °C (131 F±3.6 F).			
		When tested in accordance with Section			
	Droplet and splash ANSI/ISEA Z87.1-2020 9.17	9.17.1, the droplets and/or liquid splash			NA
		shall not cause a red coloration within			
		either of the two circles described in the test			
1.00		method.			
1.20		When tested in accordance with Section		NA	
		9.17.2, the laser beam shall not make direct			
		contact with any point on the eye-region			
		rectangle without first being intercepted by			
		the faceshield.			
		The ratio of the mean reflectance after			
	Dust hazard	exposure in the dust chamber to the mean		NA	
1.21(1)	ANSI/ISEA Z87.1-2020 9.18	reflectance before exposure shall not be less			NA
		than 0.80.			
		No red coloration shall be observed within			
1.22 ⁽¹⁾	Fine dust hazard	either of the two circles described in the test		NA	NA
	ANSI/ISEA Z87.1-2020 9.19	method.			
		The lenses of protectors marked in			
1.23(1)	Anti-Fog properties	accordance with Table 3 as having anti-fog		Meet	Pass
	ANSI/ISEA Z87.1-2020 9.20	properties shall remain free from fogging		Witter	1 455
		for a minimum of 8 seconds.			
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Note: 1.---= Not Provided, NA=Not Applicable, NR= Not Required.

2. ⁽¹⁾: The test items are not within the scope of CNAS recognition.

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Page 10 of 10

Report No. STC23080133

Date: 09/06/2023 Sample Photo



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