

---

REPORT TO:	Polison Corporation 181 ERH Sheng First Road Kaohsiung 806, Taiwan, R.O.C.	PROJECT:	Report of Faceshield Testing
ATTENTION:	Ms. Karen Wu	PSI PROJECT NO.:	823-76033
DATE:	February 28, 2007	PSI LAB NO.:	ELC-70046

---

Professional Service Industries, Inc. (PSI) has performed testing on the referenced project. The results of our tests are presented in the accompanying report.

On February 21, 2007, Professional Service Industries, Inc. (PSI) received twenty-five (25) faceshield windows with headgear, identified as B1 headgear with FC 48 Removable Window from Polison Corp. On February 27, 2007 and February 28, 2007, PSI tested these faceshields in general accordance with the applicable sections of ANSI Z87.1-2003.


PSI has not conducted flammability testing per ANSI Z87.1, Paragraph 9.6. Conformance of the product to the standard is contingent upon documentation of the compliance of resins to ASTM D635-97.

Our services for this project were performed in accordance with PSI Proposal No. 823-7063, dated January 9, 2007. The proposal included a proposed scope of services, estimated costs, unit rates, and PSI's General Conditions. Authorization to perform this project was in the form of signed acceptance of the aforementioned proposal, acknowledged January 30, 2007.

This report (including attachments) shall not be reproduced, except in full, without written approval of PSI. Testing was conducted under the direct, constant supervision of Professional Service Industries, Inc.

Please contact us should you have any questions concerning this report.

Respectfully submitted,  
Professional Service Industries, Inc.

  
David J. Sienerth  
Lab Technician, Electrical

  
Paul B. Medwig  
Manager, Electrical/Special Test



REPORT OF FACESHIELD TESTING

Test/Property	ANSI Z87.1 Paragraph	Location	ANSI Z87.1 Requirement	Test Results	Acceptance
High velocity impact	9.3.1.2	LEFT:	No orbital contact or hazardous ejections		Pass
		15° nasal		Acceptable	
		0°		Acceptable	
		15° temporal		Acceptable	
		30°		Acceptable	
		45°		Acceptable	
		60°		Acceptable	
		75°		Acceptable	
		90°		Acceptable	
		90° 10 mm high		Acceptable	
		90° 10 mm low		Acceptable	
		RIGHT:			
		15° nasal		Acceptable	
		0°		Acceptable	
		15° temporal		Acceptable	
		30°		Acceptable	
		45°		Acceptable	
		60°		Acceptable	
		75°		Acceptable	
		90°		Acceptable	
90° 10 mm high	Acceptable				
90° 10 mm low	Acceptable				



REPORT OF FACESHIELD TESTING

Test/Property	ANSI Z87.1 Paragraph	Location	ANSI Z87.1 Requirement	Test Results	Acceptance
High mass impact	9.3.1.1	Left 1	No hazardous ejections	Acceptable	Pass
		Left 2		Acceptable	
		Right 1		Acceptable	
		Right 2		Acceptable	
Drop ball impact	9.2.2.1		No fracture	Acceptable	Pass
Window thickness	9.2.2.2		3.0 mm (or) 1.0 mm	1.0 mm	Pass
Penetration	9.3.1.3		No fracture, no penetration	Acceptable	Pass
Prismatic power	9.4.2		0.37 Δ max	0.15 Δ	Pass
Vertical Prism Imbalance	9.4.2		0.37 Δ max	0.03 Δ	Pass
Horizontal Prism Imbalance	9.4.2		0.125 Δ max base in 0.75 Δ base out	0.175 Δ Base Out	Pass
Resolving Power	9.4.3		Pattern 20 min.	Pattern 28	Pass
Haze	9.4.4		3% max	0.60 %	Pass



REPORT OF FACESHIELD TESTING

Test/Property	ANSI Z87.1 Paragraph	Location	ANSI Z87.1 Requirement	Test Results	Acceptance
Transmittance:	9.4.5				
Visible		Left		93.2 %	
		Right		93.0 %	
		L/R Ratio	0.90-1.10	1.00 %	Pass
Flammability	9.6			*	*
Corrosion resistance	9.7		Function not impaired	Acceptable	Pass
Cleanability	9.8		Function not impaired	Acceptable	Pass
Markings	9.10	Window	Manufacturer and specification compliance – does not have the "+"	Non-Acceptable	Fail
		Headgear	Manufacturer and specification compliance	Acceptable	Pass

\* Acceptance is contingent upon receipt of certificate of compliance to ASTM D635-97 from the resin manufacturer.