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Test Report T12280-01-1 Issue 1
EN 166:2001
Thames Co., Ltd.
ST-2245B Spectacles
12 February 2018



Approved by:

Handwritten signature of Keith E. Whitten in blue ink.

Keith E. Whitten
Laboratory Manager

Prepared by:

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Cathy Woloszyn
Lab Administrator

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Objective:

Contract testing to EN 166:2001, “Personal Eye Protection - Specifications”.

Clause(s): 6 Design and manufacturing requirements
7.1 Basic requirements
7.2.1.2 Protection against optical radiation, Ultraviolet filters (EN 170:2002)
7.2.1.4 Protection against optical radiation, Sunglare filters for industrial use (EN 172:1994+A1:2000 +A2:2001)
7.2.2 Protection against high-speed particles - Low, medium or high energy impact (F)

Samples:

ST-2245B Spectacles

Ocular Variant	Quantity	Sample ID
Clear	15	0A
Smoke	30	0B
Yellow	15	0C
Orange	15	0D

Date(s) submitted: 26 January 2018

Procedures:

Testing protocols in accord with good laboratory practice were employed unless otherwise specified, for all tests. All tests were conducted in a standard laboratory atmosphere unless otherwise specified.

Testing procedures were followed as specified within:

EN 167:2001 “Personal eye-protection - Optical test methods”
EN 168:2001 “Personal eye-protection - Non-optical test methods”

Samples were randomly selected from the quantity provided and tested in the as-received condition unless otherwise stated.

When applicable, samples were assessed on medium headform (64mm PD).

Variation in luminous transmittance- P1 and P2, The actual variation is compared to the requirement. If the actual variation does not meet the requirement, then the corrected variation is used. The corrected variation is calculated from the difference between the theoretical and actual variation. The theoretical values are determined by applying Beer-Lambert’s Law to the known thickness variation of the lens.

Spherical, astigmatic, and prismatic refractive powers are a function of lens geometry, not tint, therefore they were only performed on one tint variant of each lens type.

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Assessment summary:

Date(s) tested: 05 through 09 February 2018

EN 166:2001 Requirements	Compliant	Non-Compliant
6 Design and manufacturing requirements		
6.1 General construction	X	
6.2 Materials	Not assessed	
6.3 Headbands	Not applicable	
7 Basic, particular and optional requirements		
7.1 Basic requirements		
7.1.1 Field of vision	X	
7.1.2 Optical requirements		
7.1.2.1 Spherical, astigmatic, and prismatic refractive powers	Optical Class 1	
7.1.2.2 Transmittance		
7.1.2.2.1 Oculars without filtering action	Not applicable	
7.1.2.2.2 Oculars with filtering action	See 7.2.1	
7.1.2.2.3 Variations in transmittance	X	
7.1.2.3 Diffusion of light	X	
7.1.3 Quality of material and surface	X	
7.1.4 Robustness		
7.1.4.1 Minimum robustness	Not applicable	
7.1.4.2 Increased robustness	X	
7.1.5 Resistance to Ageing		
7.1.5.1 Stability at elevated temperatures	X	
7.1.5.2 Resistance to ultraviolet radiation (oculars only)	X	
7.1.6 Resistance to corrosion	Not applicable	
7.1.7 Resistance to ignition	X	
7.2 Particular requirements (Optional)		
7.2.1 Protection against optical radiation		
7.2.1.2 Ultraviolet filters (EN170)	X	
7.2.1.4 Sunglare filters for industrial use (EN172)	X	
7.2.2 Protection against high speed particles (F)	X	
7.2.8 Lateral Protection	X	
7.3 Optional requirements	None claimed	

Samples as assessed meet the requirements of EN166:2001 and as a result of this assessment the following markings are suggested:

Ocular Variant	Filter Type	Filter Scale	Ocular Marking	Frame Marking
Clear	Ultraviolet	2-1.2 or 2C-1.2	CE 'filter scale' 'mfg' 1 F	CE 'mfg' EN 166 F
Smoke	Sunglare	5-3.1		
Yellow	Ultraviolet	2-1.2 or 2C-1.2		
Orange	Sunglare	5-1.7		

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Results:

6.1 General construction; Result: Pass

Samples were assessed and found to be free from projections, sharp edges or other defects that are likely to cause discomfort or injury.

7.1.1 Field of view; Result: Pass

Samples assessed and a 22mm(W) x 20mm(H) ellipse could be described in full for each eye (64mm pupil distance)

7.1.2.1 Refractive powers

Spherical and astigmatic powers

Sample ID	Left Ocular		Right Ocular		Optical Class Met
	Spherical Power (m ⁻¹)	Astigmatic Power (m ⁻¹)	Spherical Power (m ⁻¹)	Astigmatic Power (m ⁻¹)	
0B-1	0.029	0.04	0.024	0.04	1
0B-2	0.027	0.05	0.013	0.03	1
0B-3	0.037	0.04	0.025	0.04	1
Requirement					
Optical Class 1:	+/- 0.06	≤ 0.06	+/- 0.06	≤ 0.06	
Optical Class 2:	+/- 0.12	≤ 0.12	+/- 0.12	≤ 0.12	
Optical Class 3:	+ 0.12 /- 0.25	≤ 0.25	+ 0.12 /- 0.25	≤ 0.25	

Difference in prismatic refractive power

Sample ID	Vertical Imbalance (cm/m)	Horizontal Imbalance (cm/m)	Optical Class Met
0B-1	<0.03	0.17 Base In	1
0B-2	<0.03	0.13 Base In	1
0B-3	<0.03	0.18 Base In	1
Requirement			
Optical Class 1:	≤ 0.25	≤ 0.75 Base Out, ≤ 0.25 Base In	
Optical Class 2:	≤ 0.25	≤ 1.00 Base Out, ≤ 0.25 Base In	
Optical Class 3:	≤ 0.25	≤ 1.00 Base Out, ≤ 0.25 Base In	

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7.1.2.2.3 Variations in transmittance [filtering]

Clear

Sample ID:	0A-1		0A-2		0A-3		Requirement
Ocular:	Left	Right	Left	Right	Left	Right	
Maximum %T:	89.5	89.5	89.7	89.7	89.8	89.7	
Center %T:	89.4	89.3	89.5	89.5	89.5	89.5	
Minimum %T:	89.2	89.1	89.3	89.2	89.2	89.2	
Actual P1 & P2:	0.22	0.22	0.22	0.34	0.34	0.34	
P3:	0.11		0.00		0.00		± 20%
Pass/Fail:	Pass						

Smoke

Sample ID:	0B-4		0B-5		0B-6		Requirement
Ocular:	Left	Right	Left	Right	Left	Right	
Maximum %T:	13.7	12.9	13.7	12.5	13.6	12.4	
Center %T:	11.4	11.4	11.5	11.1	11.3	11.2	
Minimum %T:	10.4	10.1	10.3	10.5	10.3	10.3	
Theoretical P1 & P2:	28.8	17.5	28.7	17.6	28.9	17.6	
Actual P1 & P2:	20.1	13.2	19.3	12.0	19.7	11.5	± 10%
Corrected P1 & P2:	8.70	4.26	9.35	5.58	9.19	6.12	
P3:	0.44		3.05		1.41		± 20%
Pass/Fail:	Pass						

Yellow

Sample ID:	0C-1		0C-2		0C-3		Requirement
Ocular:	Left	Right	Left	Right	Left	Right	
Maximum %T:	88.8	88.6	88.4	88.4	88.7	88.5	
Center %T:	88.5	88.3	88.2	88.3	88.2	88.3	
Minimum %T:	88.1	88.1	88.0	88.1	88.0	88.1	
Actual P1 & P2:	0.45	0.34	0.23	0.23	0.57	0.23	
P3:	0.23		0.11		0.11		± 20%
Pass/Fail:	Pass						

Orange

Sample ID:	0D-1		0D-2		0D-3		Requirement
Ocular:	Left	Right	Left	Right	Left	Right	
Maximum %T:	49.4	49.6	51.3	51.3	50.5	49.6	
Center %T:	47.2	47.7	49.2	49.4	48.4	47.3	
Minimum %T:	46.2	46.1	48.0	48.0	46.9	46.5	
Actual P1 & P2:	4.66	3.98	4.27	3.85	4.34	4.86	
P3:	1.05		0.40		2.27		± 20%
Pass/Fail:	Pass						

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7.1.2.3 Diffusion of light

Sample ID	cd/(m ² ·lx)	Pass	Fail
Clear			
0A-1R	0.39	X	
0A-2L	0.35	X	
0A-3R	0.32	X	
Smoke			
0B-4R	0.11	X	
0B-5L	0.20	X	
0B-6R	0.12	X	
Yellow			
0C-1R	0.37	X	
0C-2L	0.32	X	
0C-3R	0.38	X	
Orange			
0D-1R	0.19	X	
0D-2L	0.22	X	
0D-3R	0.45	X	
Requirement:	≤ 0.75		

7.1.3 Quality of material and surface; Result: Pass

Samples assessed were found to be free of any optical defects that could impair vision.

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7.1.4.2 Increased robustness - Complete eye-protectors

Sample ID	Location	Conditioning	Velocity (m/s)	Pass	Fail	
Clear						
0A-4	Left Frontal (1)	55°C	5.1m/s 22mm 43g Drop Ball 1.3m	X		
0A-5	Right Frontal (2)			X		
0A-6	Left Lateral (3)			X		
0A-7	Left Frontal (1)	-5°C		X		
0A-8	Right Frontal (2)			X		
0A-9	Right Lateral (4)			X		
Smoke						
0B-7	Left Frontal (1)	55°C		X		
0B-8	Right Frontal (2)			X		
0B-9	Left Lateral (3)			X		
0B-10	Left Frontal (1)	-5°C		X		
0B-11	Right Frontal (2)			X		
0B-12	Right Lateral (4)		X			
Yellow						
0C-4	Left Frontal (1)	55°C	X			
0C-5	Right Frontal (2)		X			
0C-6	Left Lateral (3)		X			
0C-7	Left Frontal (1)	-5°C	X			
0C-8	Right Frontal (2)		X			
0C-9	Right Lateral (4)		X			
Orange						
0D-4	Left Frontal (1)	55°C	X			
0D-5	Right Frontal (2)		X			
0D-6	Left Lateral (3)		X			
0D-7	Left Frontal (1)	-5°C	X			
0D-8	Right Frontal (2)		X			
0D-9	Right Lateral (4)		X			

7.1.5.1 Stability at elevated temperatures; Result: Pass

Samples assessed had no visible deformation.

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7.1.5.2 Resistance to ultraviolet radiation - Transmittance

Sample ID	Before (%)	After (%)	Relative Change (%)	Pass	Fail
Clear					
0A-1R	89.3	89.1	-0.224	X	
0A-2L	89.5	89.3	-0.223	X	
0A-3R	89.5	89.2	-0.336	X	
Requirement:				±5	
Smoke					
0B-4R	11.4	11.4	0.704	X	
0B-5L	11.5	10.9	-5.570	X	
0B-6R	11.1	11.1	0.000	X	
Requirement:				±10	
Yellow					
0C-1R	88.3	88.0	-0.340	X	
0C-2L	88.2	88.0	-0.227	X	
0C-3R	88.3	88.0	-0.340	X	
Requirement:				±5	
Orange					
0D-1R	47.7	47.1	-1.258	X	
0D-2L	49.2	49.0	-0.407	X	
0D-3R	47.3	47.1	-0.423	X	
Requirement:				±5	

7.1.5.2 Resistance to ultraviolet radiation - Diffusion of Light

Sample ID	cd/(m ² ·lx)	Pass	Fail
Clear			
0A-3R	0.31	X	
0A-4L	0.35	X	
0A-5R	0.34	X	
Smoke			
0B-4R	0.14	X	
0B-5L	0.28	X	
0B-6R	0.11	X	
Yellow			
0C-3R	0.30	X	
0C-4L	0.30	X	
0C-5R	0.36	X	
Orange			
0D-3R	0.17	X	
0D-4L	0.27	X	
0D-5R	0.58	X	
Requirement:	≤ 0.75		

7.1.7 Resistance to ignition; Result: Pass

Components tested: Lens, Temple, Frame, Nosepiece
Components tested did not ignite or continue to glow after removal of the steel rod.

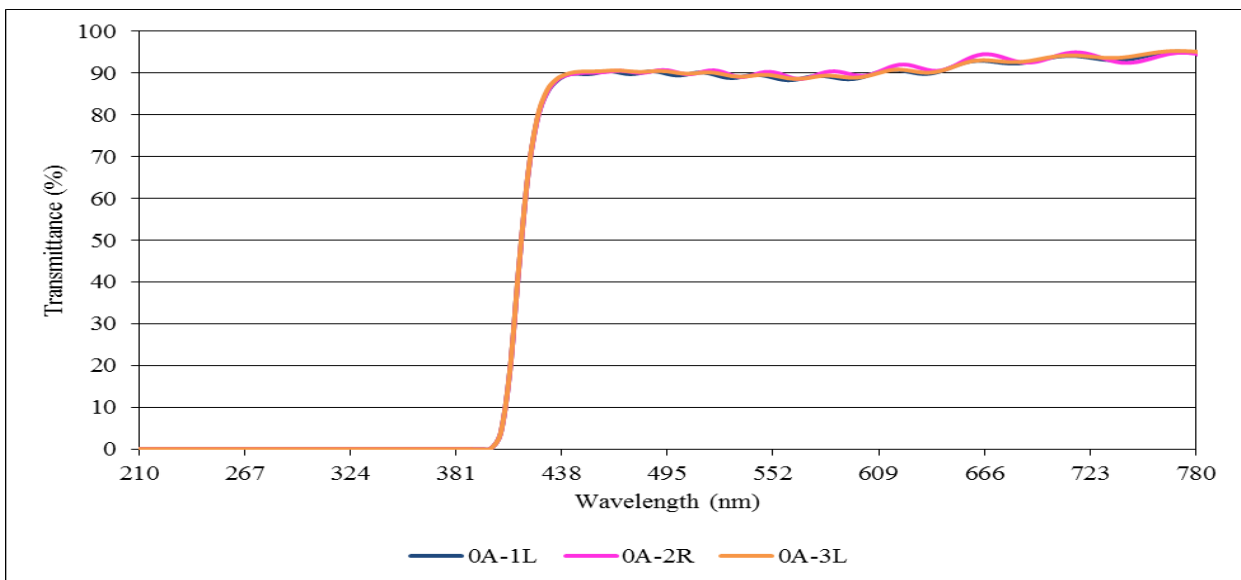
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7.2.1.2 Protection against optical radiation - Ultraviolet filters (EN 170)

Clear

Sample ID:	0A-1L	0A-2R	0A-3L	Requirement Scale Number 2-1.2 or 2C-1.2
Luminous (Tv) - ILLA	89.4	90.1	89.6	74.4 to 100%
313nm	1.7E-4	1.8E-4	1.7E-4	≤ 0.0003%
365nm	1.3E-4	1.3E-4	1.3E-4	≤ 10%
Max. 210 to 313nm	2.5E-4	2.6E-4	2.5E-4	≤ 0.0003%
Max. 313 to 365nm	1.8E-4	1.9E-4	1.8E-4	≤ 10%
Max. 365 to 405nm	3.65	3.64	3.67	< Tv
Optional requirements for oculars with enhanced color recognition:				
Min. 500 to 650nm	88.3	88.7	88.7	≥ 0.2 Tv
Attenuation Quotients:				
Red Signal	1.01	1.01	1.01	≥ 0.8
Yellow Signal	1.00	1.00	1.00	
Green Signal	1.00	1.00	1.00	
Blue Signal	1.01	1.00	1.01	
Scale number met	2-1.2 or 2C-1.2			



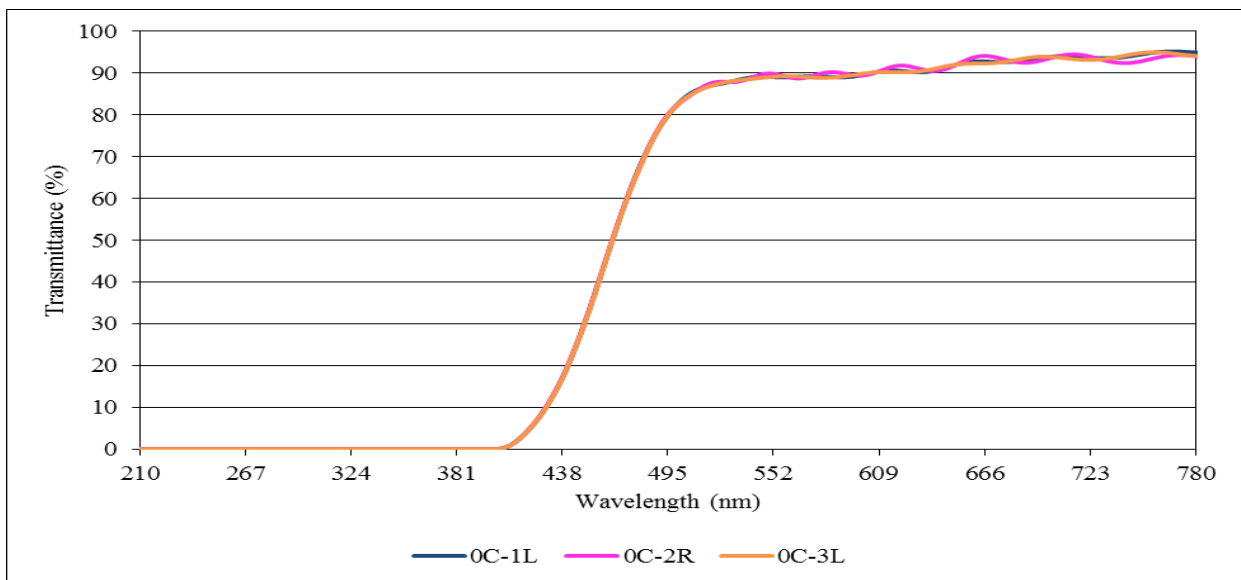
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7.2.1.2 Protection against optical radiation - Ultraviolet filters (EN 170)

Yellow

Sample ID:	0C-1L	0C-2R	0C-3L	Requirement Scale Number 2-1.2 or 2C-1.2
Luminous (Tv) - ILLA	88.5	88.8	88.5	74.4 to 100%
313nm	7.7E-5	8.0E-5	7.6E-5	≤ 0.0003%
365nm	6.1E-5	7.0E-5	6.5E-5	≤ 10%
Max. 210 to 313nm	1.3E-4	1.2E-4	1.3E-4	≤ 0.0003%
Max. 313 to 365nm	8.4E-5	8.6E-5	8.4E-5	≤ 10%
Max. 365 to 405nm	1.7E-1	1.8E-1	1.7E-1	< Tv
Optional requirements for oculars with enhanced color recognition:				
Min. 500 to 650nm	82.5	82.4	82.4	≥ 0.2 Tv
Attenuation Quotients:				
Red Signal	1.04	1.04	1.04	≥ 0.8
Yellow Signal	1.03	1.03	1.03	
Green Signal	0.99	0.99	0.99	
Blue Signal	0.93	0.93	0.93	
Scale number met	2-1.2 or 2C-1.2			



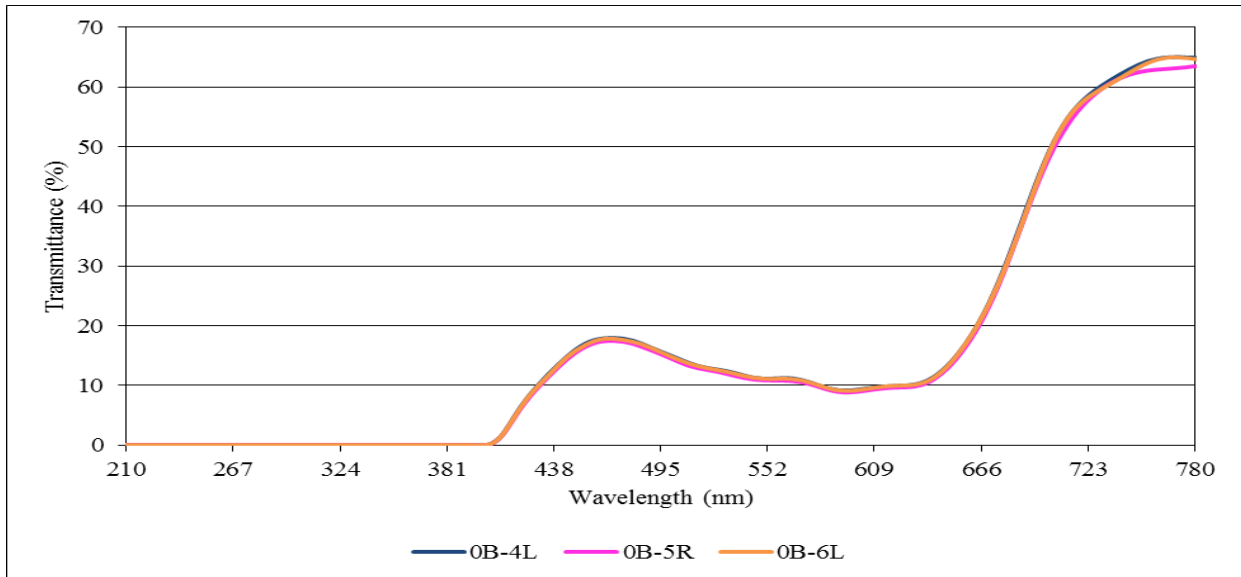
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7.2.1.4 Protection against optical radiation - Sunglare filters for industrial use (EN 172)

Smoke

Sample ID:	0B-4L	0B-5R	0B-6L	Requirement Scale Number 5-3.1
Luminous (Tv) – D65	11.7	11.4	11.7	8.0 to 17.8%
Max. 280 to 315nm	4.0E-5	3.9E-5	4.1E-5	≤ 0.01 Tv
Max. 315 to 350nm	3.2E-5	3.1E-5	3.2E-5	≤ 0.5 Tv
Mean 315 to 380nm	2.7E-5	2.6E-5	2.7E-5	≤ 0.5 Tv
Requirements for “Driving and Road Use:				
Luminous (Tv)	11.7	11.4	11.7	≥ 8.0%
Min. 500 to 650nm	9.18	8.83	9.10	≥ 0.2 Tv
Attenuation Quotients:				
Red Signal	0.97	0.97	0.97	≥ 0.8
Yellow Signal	0.92	0.92	0.92	
Green Signal	1.05	1.05	1.05	
Blue Signal	1.27	1.28	1.27	
Scale number met	5-3.1			



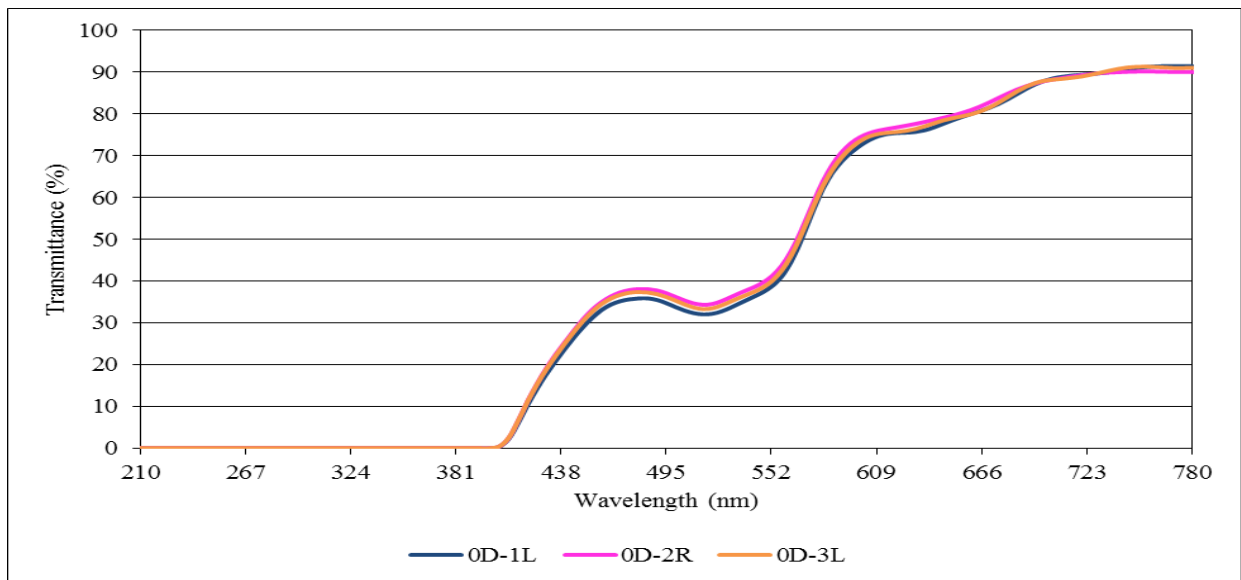
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7.2.1.4 Protection against optical radiation - Sunglare filters for industrial use (EN 172)

Orange

Sample ID:	0D-1L	0D-2R	0D-3LR	Requirement Scale Number 5-1.7
Luminous (Tv) – D65	48.5	50.6	49.6	43.2 to 58.1%
Max. 280 to 315nm	9.1E-5	9.8E-5	9.5E-5	≤ 0.1 Tv
Max. 315 to 350nm	7.2E-5	7.8E-5	7.5E-5	≤ Tv
Mean 315 to 380nm	6.1E-5	6.7E-5	6.3E-5	≤ Tv
Requirements for “Driving and Road Use:				
Luminous (Tv)	48.5	50.6	49.6	≥ 8.0%
Min. 500 to 650nm	32.0	34.3	33.3	≥ 0.2 Tv
Attenuation Quotients:				
Red Signal	1.55	1.51	1.53	≥ 0.8
Yellow Signal	1.28	1.26	1.27	
Green Signal	0.80	0.82	0.81	
Blue Signal	0.83	0.84	0.84	
Scale number met	5-1.7			



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7.2.2 Protection against high-speed particles

Sample ID	Location	Velocity (m/s)	Pass	Fail
Clear				
0A-10	Left Frontal (1)	46.0	X	
0A-11		45.9	X	
0A-12	Right Frontal (2)	45.7	X	
0A-13		45.7	X	
0A-14	Left Lateral (3)	45.7	X	
0A-15	Right Lateral (4)	46.3	X	
Smoke				
0B-13	Left Frontal (1)	46.2	X	
0B-14		45.9	X	
0B-15	Right Frontal (2)	45.7	X	
0B-16		45.7	X	
0B-17	Left Lateral (3)	45.6	X	
0B-18	Right Lateral (4)	45.7	X	
Yellow				
0C-10	Left Frontal (1)	46.0	X	
0C-11		45.9	X	
0C-12	Right Frontal (2)	45.7	X	
0C-13		45.8	X	
0C-14	Left Lateral (3)	45.7	X	
0C-15	Right Lateral (4)	45.7	X	
Orange				
0D-15	Left Frontal (1)	45.9	X	
0D-10		46.4	X	
0D-11	Right Frontal (2)	45.7	X	
0D-12		45.7	X	
0D-13	Left Lateral (3)	45.7	X	
0D-14	Right Lateral (4)	45.7	X	

7.2.8 Lateral protection; Result: Pass

Samples prevent the tip of a 2mm rod from touching the lateral impact regions of the headform.

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Sample photographs:



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3. ICS shall keep documents and information related to Client confidential and will not disclose any such information to third parties without Client permission. ICS will, however, disclose any such information in response to compulsory legal process after providing Client with a copy of such process.
4. ICS Reports apply only to the standards or procedures identified therein and to the sample (s) tested and or inspection (s) made. Test and/or inspection results are not indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products.
5. ICS Test Reports and their insignia are for the exclusive use of the Client. Reports, in their entirety, may be utilized at the discretion of Clients and/or their authorized agents for purposes including, but not limited to, research & development, recordkeeping, product packaging, educational and promotional materials in various formats, certification, and compliance. As an accredited independent testing laboratory, ICS maintains an interest in preventing the misrepresentation of the contents of its test reports. As such, Clients may NOT use, reproduce or otherwise disseminate excerpted, partial, redacted or otherwise altered ICS test reports without the prior review of such use by ICS and the granting of its written approval. Further, Clients are prohibited from manipulating data and/or extrapolating-from-it statistics or conclusions that contradict or eclipse the empirical results of testing as reflected by the totality of the report. Clients are to refrain from utilizing ICS Test Reports and/or the ICS logo in a manner that suggests any extra-report conclusions are provided and/or endorsed by ICS Laboratories.
6. Any use by Client of ICS's Reports or the information contained therein is conditioned on timely payment of all fees.
7. The name(s) listed as the "Issued to" party on test reports may not reflect the actual entity submitting and/or contracting the assessment.
8. ICS shall retain copies of testing job files (including reports) for a period of at least six (6) years and when applicable, evidentiary test samples for the length of time as deemed appropriate after which time they may be disposed of at management's discretion. If Client requests additional copies of Reports during this period, an additional charge will apply for the preparation and delivery of such reports.
9. Test reports are valid for certification purposes for one year from date of issue, inclusive of retest or variant additions which must be performed within one year of date of issue to avoid full retest.
10. Client is responsible for procuring, at its cost, insurance protecting the value of its property and samples.
11. For the safety of our personnel, Client must advise if samples are known or suspected to contain hazardous substances. Safety Data Sheets must be provided upon request if available.
12. ICS represents that Services shall be performed within the limits agreed with Client, and in a manner consistent with good laboratory practice. **NO OTHER REPRESENTATIONS TO CLIENT, EXPRESS OR IMPLIED, AND NO WARRANTY OR GUARANTEE IS INCLUDED OR INTENDED IN THIS**
- AGREEMENT, OR IN ANY OTHER REPORT, OPINION OR DOCUMENT RELATED TO THE SERVICES. ICS DOES NOT GUARANTEE PRODUCT COMPLIANCE OR CERTIFICATION.
13. ICS hereby objects to any conflicting terms contained in any order or acceptance submitted by Client.
14. Schedules are confirmed upon acceptance of quotation. All reasonable efforts will be made to comply with conferred schedule. Guarantees are neither implied nor promised.
15. Certain work may be subcontracted to ICS authorized affiliate laboratories as required or applicable. Client will be made aware of subcontracted work.
16. Client agrees to pay any and all additional costs associated with unexpected or above-standard communications and/or consultations with Client or third parties as designated by Client.
17. Client agrees to pay any and all additional costs for work additional to the original scope of work as agreed to by Client.
18. Client understands and agrees that ICS, in entering into this Contract and by performing services hereunder, does not assume, abridge, abrogate or undertake to discharge any duty or responsibility of Client to any other party or parties. No one other than Client shall have any right to rely on any Report or other representation of conduct of ICS and ICS disclaims any obligations of any nature whatsoever with respect to such person.
19. Client agrees, in consideration of ICS undertaking to perform the test(s) hereunder, to protect, defend and indemnify ICS from any and all claims, damages, expenses either direct or consequential for injuries to persons or property arising out of or in consequence of the performance of the testing, inspection and reporting hereunder and/or the performance of the products tested or inspected hereunder, **UNLESS CAUSED BY THE NEGLIGENCE OF ICS.**
20. **IT IS AGREED THAT IF ICS SHOULD BE FOUND LIABLE FOR ANY LOSSES OR DAMAGES ATTRIBUTABLE TO THE SERVICES HEREUNDER IN ANY RESPECT, ITS LIABILITY SHALL IN NO EVENT EXCEED THE AMOUNT OF THE FEE PAID BY CLIENT FOR SUCH SERVICES AND CLIENT'S SOLE REMEDY AT LAW OR IN EQUITY SHALL BE THE RIGHT TO RECOVER UP TO SUCH AMOUNT.**
21. Quotations are valid for 30 days from date of issue. Terms: 30% Laboratory/Testing fees invoiced and payable upon acceptance of quotation. Remaining fees invoiced and payable upon completion of services, 15 days net. Cancelled jobs will be invoiced for work performed and/or set-up costs incurred. Cancelled Purchase Orders are subject to 10% service charge. Shipping costs incurred by ICS will be invoiced at cost +10% handling fee. A minimum USD \$25.00 handling fee will be also invoiced. For shipping costs incurred by Client, ICS will invoice a minimum USD \$25.00 handling fee.
22. In the event that payment is not received within 15 days of invoice date, Client agrees to pay a late payment charge on the unpaid balance equal to 1-1/2% per month or the maximum charge allowed by law, whichever is less, and all costs and expenses, including attorney's fees where recovery of the same is not prohibited by law, incurred by ICS in collecting such invoices.
23. All costs associated with compliance with any subpoena (s) for documents, testimony in a court of law, or for any other purpose relating to work performed by ICS in connection with work performed for that Client, shall be paid by Client. Client shall also pay ICS's then existing standard fee for consulting, deposition and trial testimony and all expenses related thereto.
24. Cancelled/discontinued orders: Client responsible for all administrative and testing charges up to point of cancellation.