



THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE APPROVAL GRANTED ⁽¹⁾ / APPROVAL EXTENDED ⁽¹⁾ /
APPROVAL REFUSED ⁽⁴⁾ / APPROVAL WITHDRAWN ⁽⁴⁾ / PRODUCTION DEFINITELY
DISCONTINUED ⁽¹⁾ OF A TYPE OF HELMET VISOR TYPE PURSUANT TO UN REGULATION NO.
22.06

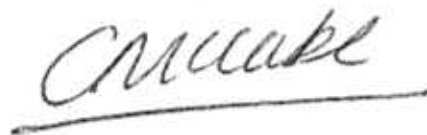


Approval No: E11*22R06/02*2058*01

Reason(s) for extension: Addition of new photochromic version.

1. Trade mark: LEATT
2. Type: ADV 8.5_9.5_LT-V01
3. Manufacturer's name: Leatt® Corporation (South Africa)
4. Address:
No. 12 Kiepersol Crescent
Atlas Gardens
Durbanville 7550
Cape Town
Republic of South Africa
5. If applicable, name of manufacturer's representative: Not applicable
6. Address: Not applicable
7. Brief description of visor, and inner visor if any: See manufacturer's documentation
8. Types of helmets to which the visor may be fitted: ADV 8.5/ADV 9.5
9. Submitted for approval on: As before and 22 July 2024

10. Technical service responsible for conducting approval tests: OMEGA SRL
12. Number of report issued by that service: As before and 11389-0204225
13. Remarks: None
14. Approval ~~GRANTED~~ / ~~EXTENDED~~ / ~~REFUSED~~ / ~~WITHDRAWN~~ ⁽¹⁾
15. Place: BRISTOL
16. Date: 12 SEPTEMBER 2024
17. Signature:



C McCABE
Chief Technical and Statutory Operations Officer

18. The following documents, bearing the approval number shown above, are available on request.

(1) Strike out what does not apply



Vehicle
Certification
Agency

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APPROVAL NUMBER: E11*22R06/02*2058*01

INFORMATION PACKAGE CONTENTS

INDEX REVISION NUMBER: 00

Conformity of Production (COP) Declaration **COP Confirmed**

Assessment Method **COP Audit**

Date of Initial Clearance **September 2023**

Date of Last Clearance **September 2023**

Total number of sheets: 03 (Three)

Reasons for Revision: Not applicable

Revision Date
&
Office Stamp

VEHICLE CERTIFICATION AGENCY

DATE: August 2024

Object:	Demand Extension of approval of a visor type according to Regulation ECE 2206
Ref.	

▪ Regulation:	ECE 22.06
▪ Item:	Helmet Visor
▪ Trademark:	Leatt
▪ Type:	Clear and Photochromic
▪ Model no:	LT-V01
▪ Commercial name:	LT-V01
▪ Manufacturer Name	Leatt
▪ Assembly plants	XIAMEN TERRIFIC COMPOSITE TECHNOLOGY CO.,LTD 7/F, Building B, NO.1299-8, Dongfu Avenue Haicang District, Xiamen, China Tel: +86-05926288281, Fax: +86-05926288281 Email: leon@xmtrfc.com

Dear Sir,

We hereby apply for the extension of homologation of the existing visor (Approval E11*22R06/00*2058*00) We also attest that no ECE Type approval was required for this visor before and that it was never granted in any other ECE state Member.

Best Regards,


Quality Manager



Technical Data Sheet

Visor Material:

Polycarbonate

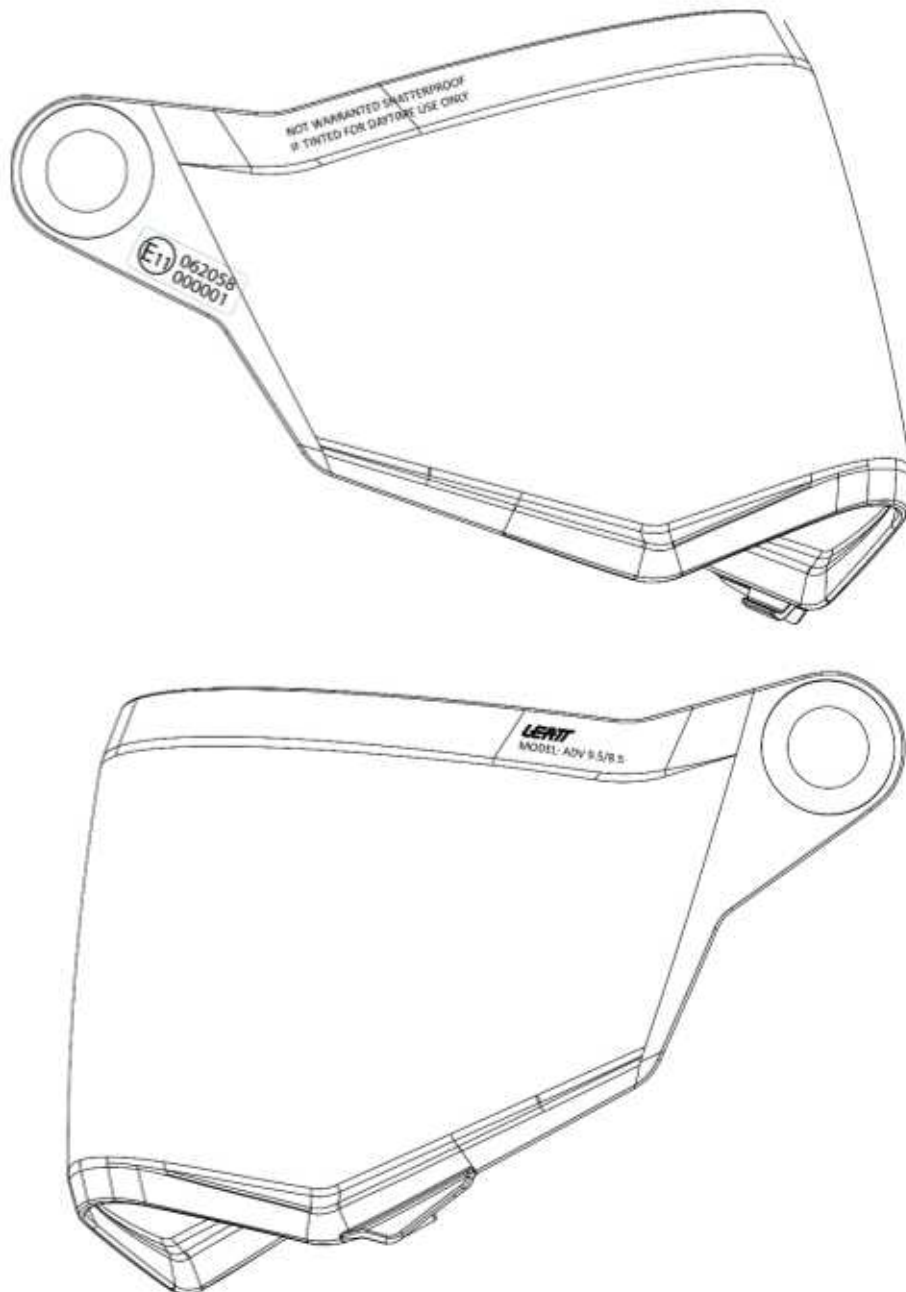
Type of helmet to which the visor may be fitted:

ADV 9.5 and ADV 8.5

Helmet seal system:

PVC Seal

Markings:



Technical drawing of ADV helmet face shield 20231028. The drawing includes three views: a top view showing a width of 261, a side view showing a height of 142, and a bottom view showing a height of 183. The drawing is labeled 'ADV helmet face shield 20231028' and includes a table with material and quantity information.

Material	Quantity
Material <not specified>	1


Quality Manager

Descrizione del campione <i>Sample description</i>	Visors for drivers and passengers of motor cycles and mopeds. [Regulation ECE/ONU 22/06]
Modello <i>Model</i>	LT-V01 (as marked on the sample)
Costruttore <i>Manufacturer</i>	Leatt Corporation

Norma di riferimento <i>Standard</i>	REGULATION ECE/ONU 22/06 Uniform provisions concerning the approval of protective helmets, of their visors and of their accessories for drivers and passengers of motor cycles and mopeds. Including supplement 2 to the 06 version of the Regulation.
Descrizione delle attività di prova <i>Test activities description</i>	§ 7.14. Test of photochromic visors, liquid crystal or equivalent visors §6.16.3.4 Luminous Transmittance § 6.16.3.6 Recognition of the light signals
Scostamento del metodo <i>Deviation from the method</i>	No

Cliente <i>Customer</i>	Leatt Corporation 50 Kiepersol Crescent Atlas Garden 7550 Durbanville – South Africa
Ordine di acquisto <i>Purchase order</i>	n. 218484 Date: 11/7/2024
Conferma ordine <i>Order confirmation</i>	8883

Data ricevimento campioni <i>Sample supply date</i>	22/07/2024
Data esecuzione prove <i>Date of test</i>	25/07/2024
Codice merce ingresso <i>Sample code IN</i>	498/24
Pratica n° <i>Number of the dossier</i>	11389

Allegati <i>Annexes</i>	None
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Laboratory Newton S.r.l. Via G. di Vittorio 2/D 20017 Rho (MI) Italy Tel. +39 02 93906088 url: http://www.newtonlab.it E-mail: info@newtonlab.it

Approval
Director of test laboratory

Firmato digitalmente da LUCA
CENEDESE
Data: 30/07/2024 17:22:25

Ing. Luca Cenedese

0	30/07/2024	First -issuing
Rev.	Date	Description

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The results contained in this report refer exclusively to the tested samples.

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2 TEST METHODS

Regulation ECE/ONU 22/06: Uniform provisions concerning the approval of protective helmets, of their visors and of their accessories for drivers and passengers of motor cycles and mopeds.
Including supplement 2 to the 06 version of the Regulation.

3 SAMPLE INFORMATION

Unless otherwise specified, the technical data stated in this paragraph are declared by the customer/manufacturer or obtained from the product technical documentation.

3.1 Description

Visors for drivers and passengers of motor cycles and mopeds.

3.2 Sampling

The sampling has been done by the client. The laboratory is not responsible for sampling.

N° of samples supplied	3 Visor + 3 pinlock 120XLT (DKS593 LEATT)
Model names marked on the samples	visor: LT-V01 Pinlock: DKS593 LEATT
Manufacturer	Leatt Corporation

The sample was tested as received.

3.3 Photo

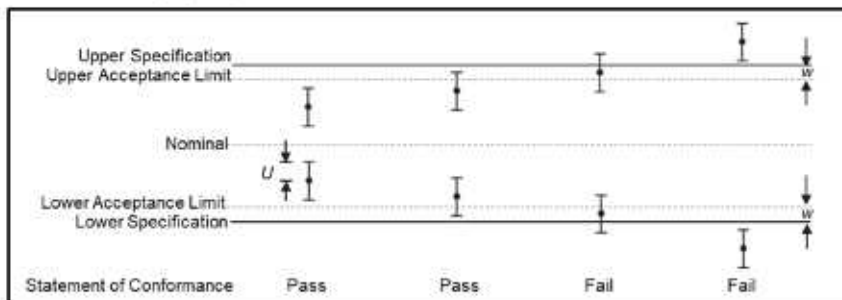
		
Model: LT-V01	Front view	Lateral view
		
Model: DKS593 LEATT	Front view with pinlock XLT120	Lateral view with pinlock XLT120

4 CONFORMITÀ DEI CAMPIONI - SAMPLE COMPLIANCE

4.1 Conformity rule

If applicable for compliance evaluation of the test results and considering the uncertainty values of the tests, The Laboratory following the recommendation from the annex of the test methods or applying ISO12311:2013 applies a binary statement with guard band equals to the expanded uncertainty of measurement which leads to a max specific risk, for result close to the limit, below 2,5% (ILAC-G8:09/2019).

The uncertainty has been used to determine whether it has been reached a performance of type "Pass": if the final result plus the uncertainty value is above the maximum level of "Pass", the sample is deemed not to be satisfactory (Fail)



U = 95% expanded measurement uncertainty
w = guard band

4.2 Sample conformity

Description of the test	Requirement	Test method	Results
Test of photochromic visors, liquid crystal or equivalent visors	§7.14	ANNEX 18	Pass
Luminous Transmittance	§6.16.3.4	ANNEX 13 + ANNEX 18 § 7.8.3.2.1.1	Pass
Signals lights recognition	§6.16.3.6	ANNEX 13 + ANNEX 18 § 7.8.3.2.1.1	Pass

Paragraphs and annexes refer to ECE/ONU 22/06 :Uniform provisions concerning the approval of protective helmets and their visors for drivers and passengers of motor cycles and mopeds.
Including supplement 2 to the 06 version of the Regulation.

5 CONDITIONING

All visors had been preconditioned to the ultraviolet conditioning in accordance with the provision of paragraph 7.2.4.1 ECE 22.06.

The samples had been preliminary conditioned to Annex 18 § 2.1.3

During the tests the surface temperature of the filters has been maintained $23^{\circ}\text{C} \pm 1^{\circ}\text{C}$

5.1 Equipment

EQUIPMENT	MODEL	CODE
UV Conditioning rig	AD Engineering UVX 1070 PLUS	NWT003
Oven	Isco STE300 + PID Teclogic TLK38	NWT006
Photochromic test equipment	AD Engineering PHOT	NWT294

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6 AMBIENT

Temperature	30°C ± 2°C
Relative humidity	51% ± 5%

7 TEST OF PHOTOCROMIC VISORS, LIQUID CRYSTAL

7.1 Equipments

Equipment	Model	Code
Photochromic test equipment	AD Engineering PHOT	NWT294

7.2 Test results

ID Sample		Luminous transmittance		τ_{v0}/τ_{v1}	Results
		Faded State τ_{v0}	Darkened State τ_{v1}		
<i>without pinlock XLT120</i>	1	88,8 %	28,2 %	3,15	Pass "Daytime use only"
	2	89,5 %	33,4 %	2,68	Pass "Daytime use only"
	3	89,1 %	24,0 %	3,71	Pass "Daytime use only"
<i>with pinlock XLT120</i>	1	80,9 %	23,8 %	3,40	Pass "Daytime use only"
	2	81,5 %	28,2 %	2,89	Pass "Daytime use only"
	3	80,2 %	24,0 %	3,34	Pass "Daytime use only"

7.3 Requirements

- τ_{v0} / τ_{v1} shall be ≥ 1.25 .
- Visors shall have a luminous transmittance $\tau_v \geq 80$ per cent, relative to the standard illuminant D65. A luminous transmittance $80 \text{ per cent} > \tau_v \geq 35 \text{ per cent}$ – or 20 per cent only in case of photochromic and/or liquid crystal visor, measured by the method given in paragraph 7.8.3.2.1.1., is also permissible if the visor is marked with the symbol shown in Figure 2 and/or with the English words "DAYTIME USE ONLY".

7.4 Measurement Uncertainty

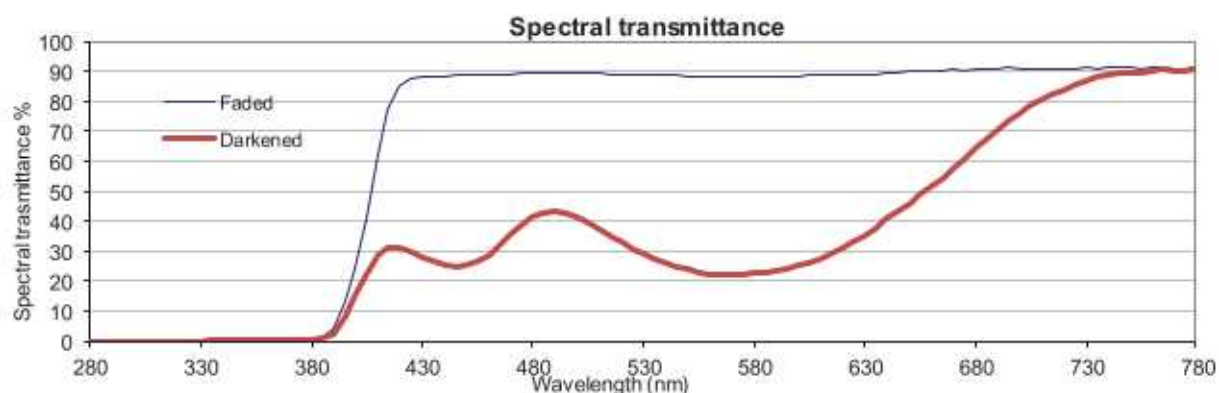
Values of expanded uncertainty are given with a level of confidence of 95 % ($k = 2$):

Measurand	Uncertainty U
Luminous Transmission	0,5%

7.5 Graphs of spectral transmittance

7.5.1 Sample 1 *without pinlock XLT120*

Faded state				
Parameter	Limits			Results
Luminous transmittance	88,8%			
Maximum value of solar UV-B transmittance τ_{suvB} - 280nm-315nm	0,2%	$\leq$	4,4%	PASS
Maximum value of solar UV-A transmittance τ_{suvA} - 315nm-380nm	0,5%	$\leq$	88,8%	PASS
Detection of signal lights: INCANDESCENT				
Red (Q)	1,00	$\geq$	0,80	PASS
Yellow (Q)	1,00	$\geq$	0,60	PASS
Green (Q)	1,00	$\geq$	0,60	PASS
Blue (Q)	1,00	$\geq$	0,60	PASS
Detection of signal lights: LED LIGHTS				
Red (Q)	1,00	$\geq$	0,80	PASS
Yellow (Q)	1,00	$\geq$	0,60	PASS
Green (Q)	1,01	$\geq$	0,60	PASS
Blue (Q)	1,00	$\geq$	0,60	PASS
Min spectral transmittance between 475 nm and 650 nm	88,32%	$\geq$	17,8%	PASS
Darkened state				
Parameter	Limits			Results
Luminous transmittance	28,2%			
Maximum value of solar UV-B transmittance τ_{suvB} - 280nm-315nm	0,0%	$\leq$	4,4%	PASS
Maximum value of solar UV-A transmittance τ_{suvA} - 315nm-380nm	0,5%	$\leq$	44,4%	PASS
Detection of signal lights: INCANDESCENT				
Red (Q)	1,20	$\geq$	0,80	PASS
Yellow (Q)	0,97	$\geq$	0,60	PASS
Green (Q)	0,99	$\geq$	0,60	PASS
Blue (Q)	1,26	$\geq$	0,60	PASS
Detection of signal lights: LED LIGHTS				
Red (Q)	1,27	$\geq$	0,80	PASS
Yellow (Q)	0,83	$\geq$	0,60	PASS
Green (Q)	1,29	$\geq$	0,60	PASS
Blue (Q)	1,20	$\geq$	0,60	PASS
Min spectral transmittance between 475 nm and 650 nm	21,85%	$\geq$	5,6%	PASS
Luminous transmittance faded state / Luminous transmittance darkened	3,15	$\geq$	1,25	PASS



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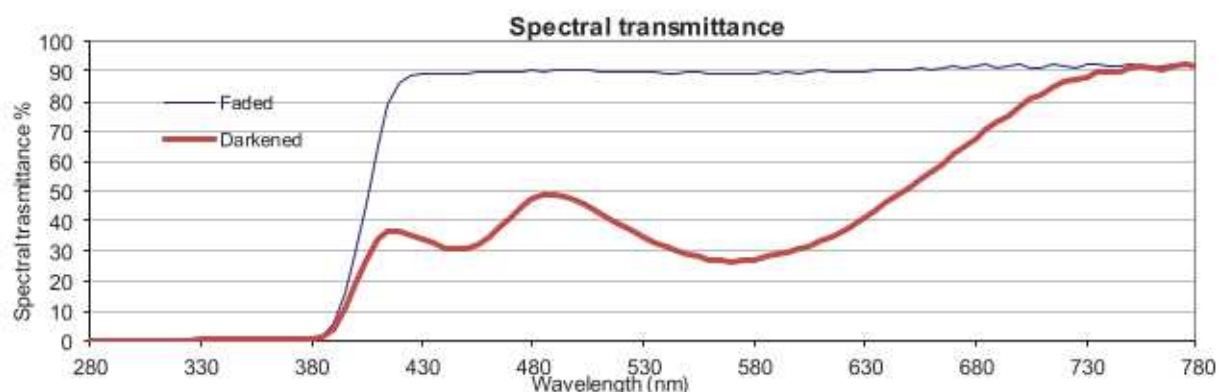
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7.5.2 Sample 2 without pinlock XLT120

Faded state				
Parameter	Limits			Results
Luminous transmittance	89,5%			
Maximum value of solar UV-B transmittance τ_{suvB} - 280nm-315nm	0,3%	$\leq$	4,5%	PASS
Maximum value of solar UV-A transmittance τ_{suvA} - 315nm-380nm	0,6%	$\leq$	89,5%	PASS
Detection of signal lights: INCANDESCENT				
Red (Q)	1,00	$\geq$	0,80	PASS
Yellow (Q)	1,00	$\geq$	0,60	PASS
Green (Q)	1,00	$\geq$	0,60	PASS
Blue (Q)	1,00	$\geq$	0,60	PASS
Detection of signal lights: LED LIGHTS				
Red (Q)	1,00	$\geq$	0,80	PASS
Yellow (Q)	1,00	$\geq$	0,60	PASS
Green (Q)	1,00	$\geq$	0,60	PASS
Blue (Q)	1,00	$\geq$	0,60	PASS
Min spectral transmittance between 475 nm and 650 nm	88,78%	$\geq$	17,9%	PASS
Darkened state				
Parameter	Limits			Results
Luminous transmittance	33,4%			
Maximum value of solar UV-B transmittance τ_{suvB} - 280nm-315nm	0,0%	$\leq$	4,5%	PASS
Maximum value of solar UV-A transmittance τ_{suvA} - 315nm-380nm	0,6%	$\leq$	44,8%	PASS
Detection of signal lights: INCANDESCENT				
Red (Q)	1,17	$\geq$	0,80	PASS
Yellow (Q)	0,97	$\geq$	0,60	PASS
Green (Q)	0,99	$\geq$	0,60	PASS
Blue (Q)	1,22	$\geq$	0,60	PASS
Detection of signal lights: LED LIGHTS				
Red (Q)	1,23	$\geq$	0,80	PASS
Yellow (Q)	0,85	$\geq$	0,60	PASS
Green (Q)	1,25	$\geq$	0,60	PASS
Blue (Q)	1,18	$\geq$	0,60	PASS
Min spectral transmittance between 475 nm and 650 nm	26,82%	$\geq$	6,7%	PASS
Luminous transmittance faded state / Luminous transmittance darkened	2,68	$\geq$	1,25	PASS



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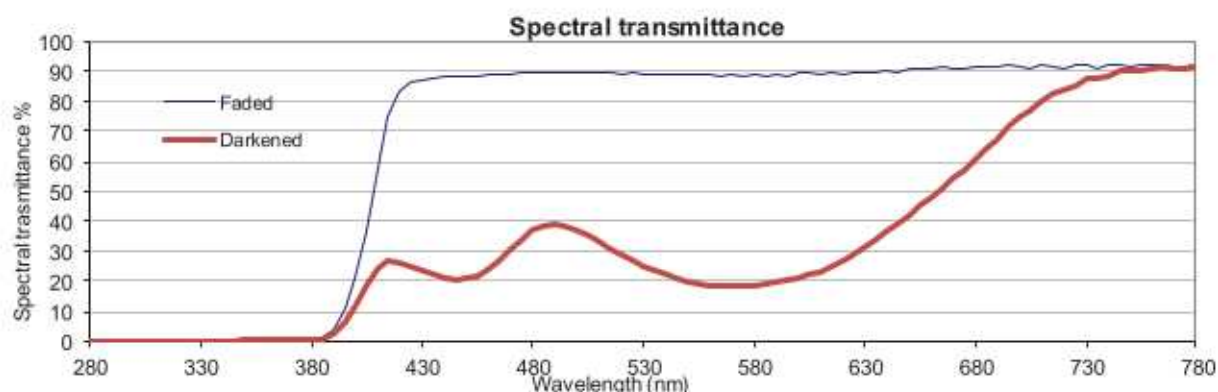
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7.5.3 Sample 3 without pinlock XLT120

Faded state				
Parameter	Limits			Results
Luminous transmittance	89,1%			
Maximum value of solar UV-B transmittance τ_{suvB} - 280nm-315nm	0,2%	$\leq$	4,5%	PASS
Maximum value of solar UV-A transmittance τ_{suvA} - 315nm-380nm	0,5%	$\leq$	89,1%	PASS
Detection of signal lights: INCANDESCENT				
Red (Q)	1,01	$\geq$	0,80	PASS
Yellow (Q)	1,00	$\geq$	0,60	PASS
Green (Q)	1,00	$\geq$	0,60	PASS
Blue (Q)	1,00	$\geq$	0,60	PASS
Detection of signal lights: LED LIGHTS				
Red (Q)	1,01	$\geq$	0,80	PASS
Yellow (Q)	1,00	$\geq$	0,60	PASS
Green (Q)	1,00	$\geq$	0,60	PASS
Blue (Q)	1,00	$\geq$	0,60	PASS
Min spectral transmittance between 475 nm and 650 nm	88,25%	$\geq$	17,8%	PASS
Darkened state				
Parameter	Limits			Results
Luminous transmittance	24,0%			
Maximum value of solar UV-B transmittance τ_{suvB} - 280nm-315nm	0,0%	$\leq$	4,5%	PASS
Maximum value of solar UV-A transmittance τ_{suvA} - 315nm-380nm	0,5%	$\leq$	44,6%	PASS
Detection of signal lights: INCANDESCENT				
Red (Q)	1,24	$\geq$	0,80	PASS
Yellow (Q)	0,97	$\geq$	0,60	PASS
Green (Q)	0,98	$\geq$	0,60	PASS
Blue (Q)	1,29	$\geq$	0,60	PASS
Detection of signal lights: LED LIGHTS				
Red (Q)	1,32	$\geq$	0,80	PASS
Yellow (Q)	0,80	$\geq$	0,60	PASS
Green (Q)	1,33	$\geq$	0,60	PASS
Blue (Q)	1,21	$\geq$	0,60	PASS
Min spectral transmittance between 475 nm and 650 nm	17,87%	$\geq$	4,8%	PASS
Luminous transmittance faded state / Luminous transmittance darkened	3,71	$\geq$	1,25	PASS



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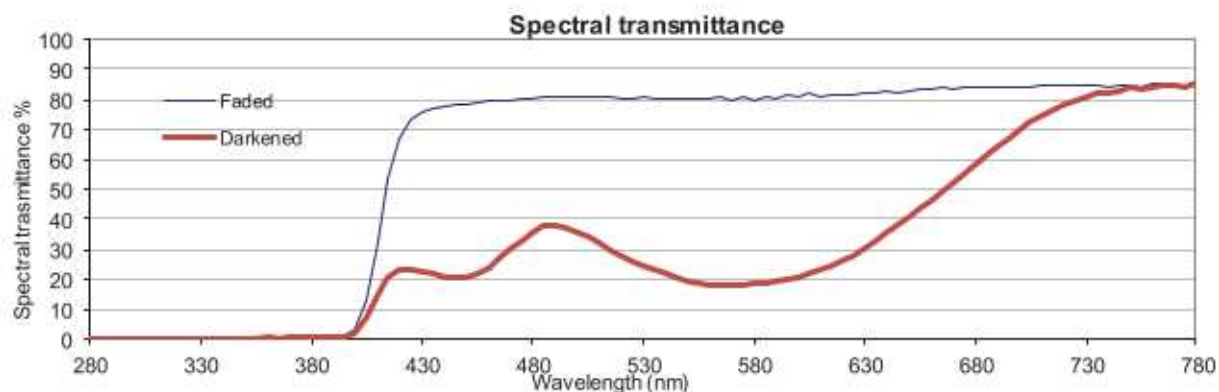
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7.5.4 Sample 1 with pinlock XLT120

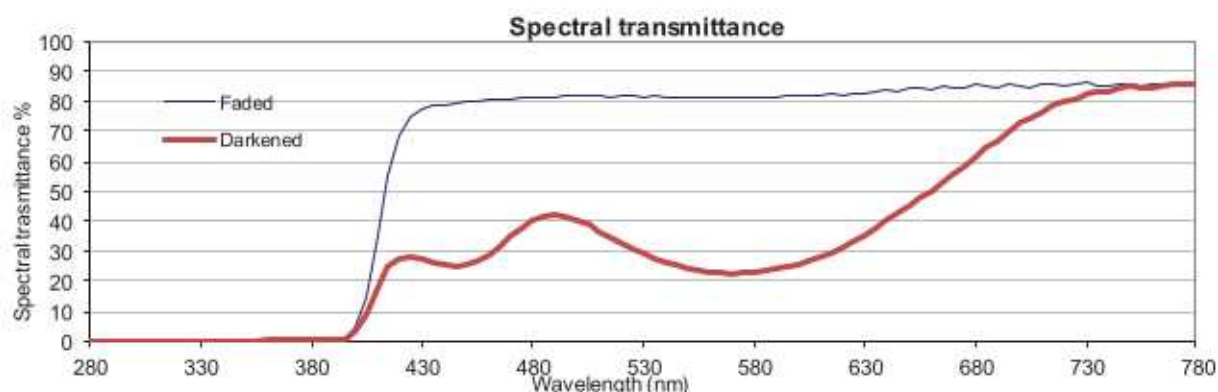
Faded state				
Parameter	Limits			Results
Luminous transmittance	80,9%			
Maximum value of solar UV-B transmittance τ_{suvB} - 280nm-315nm	0,2%	$\leq$	4,0%	PASS
Maximum value of solar UV-A transmittance τ_{suvA} - 315nm-380nm	0,4%	$\leq$	80,9%	PASS
Detection of signal lights: INCANDESCENT				
Red (Q)	1,02	$\geq$	0,80	PASS
Yellow (Q)	1,00	$\geq$	0,60	PASS
Green (Q)	1,00	$\geq$	0,60	PASS
Blue (Q)	1,00	$\geq$	0,60	PASS
Detection of signal lights: LED LIGHTS				
Red (Q)	1,02	$\geq$	0,80	PASS
Yellow (Q)	1,00	$\geq$	0,60	PASS
Green (Q)	1,00	$\geq$	0,60	PASS
Blue (Q)	0,99	$\geq$	0,60	PASS
Min spectral transmittance between 475 nm and 650 nm	80,09%	$\geq$	16,2%	PASS
Darkened state				
Parameter	Limits			Results
Luminous transmittance	23,8%			
Maximum value of solar UV-B transmittance τ_{suvB} - 280nm-315nm	0,0%	$\leq$	4,0%	PASS
Maximum value of solar UV-A transmittance τ_{suvA} - 315nm-380nm	0,4%	$\leq$	40,5%	PASS
Detection of signal lights: INCANDESCENT				
Red (Q)	1,23	$\geq$	0,80	PASS
Yellow (Q)	0,97	$\geq$	0,60	PASS
Green (Q)	0,98	$\geq$	0,60	PASS
Blue (Q)	1,28	$\geq$	0,60	PASS
Detection of signal lights: LED LIGHTS				
Red (Q)	1,30	$\geq$	0,80	PASS
Yellow (Q)	0,82	$\geq$	0,60	PASS
Green (Q)	1,31	$\geq$	0,60	PASS
Blue (Q)	1,21	$\geq$	0,60	PASS
Min spectral transmittance between 475 nm and 650 nm	18,13%	$\geq$	4,8%	PASS
Luminous transmittance faded state / Luminous transmittance darkened	3,40	$\geq$	1,25	PASS



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7.5.5 Sample 2 with pinlock XLT120

Faded state				
Parameter	Limits			Results
Luminous transmittance	81,5%			
Maximum value of solar UV-B transmittance τ_{suvB} - 280nm-315nm	0,2%	$\leq$	4,1%	PASS
Maximum value of solar UV-A transmittance τ_{suvA} - 315nm-380nm	0,4%	$\leq$	81,5%	PASS
Detection of signal lights: INCANDESCENT				
Red (Q)	1,01	$\geq$	0,80	PASS
Yellow (Q)	1,00	$\geq$	0,60	PASS
Green (Q)	1,00	$\geq$	0,60	PASS
Blue (Q)	1,00	$\geq$	0,60	PASS
Detection of signal lights: LED LIGHTS				
Red (Q)	1,02	$\geq$	0,80	PASS
Yellow (Q)	1,00	$\geq$	0,60	PASS
Green (Q)	1,00	$\geq$	0,60	PASS
Blue (Q)	0,99	$\geq$	0,60	PASS
Min spectral transmittance between 475 nm and 650 nm	80,98%	$\geq$	16,3%	PASS
Darkened state				
Parameter	Limits			Results
Luminous transmittance	28,2%			
Maximum value of solar UV-B transmittance τ_{suvB} - 280nm-315nm	0,0%	$\leq$	4,1%	PASS
Maximum value of solar UV-A transmittance τ_{suvA} - 315nm-380nm	0,4%	$\leq$	40,8%	PASS
Detection of signal lights: INCANDESCENT				
Red (Q)	1,20	$\geq$	0,80	PASS
Yellow (Q)	0,97	$\geq$	0,60	PASS
Green (Q)	0,99	$\geq$	0,60	PASS
Blue (Q)	1,23	$\geq$	0,60	PASS
Detection of signal lights: LED LIGHTS				
Red (Q)	1,26	$\geq$	0,80	PASS
Yellow (Q)	0,84	$\geq$	0,60	PASS
Green (Q)	1,26	$\geq$	0,60	PASS
Blue (Q)	1,18	$\geq$	0,60	PASS
Min spectral transmittance between 475 nm and 650 nm	22,31%	$\geq$	5,6%	PASS
Luminous transmittance faded state / Luminous transmittance darkened	2,89	$\geq$	1,25	PASS



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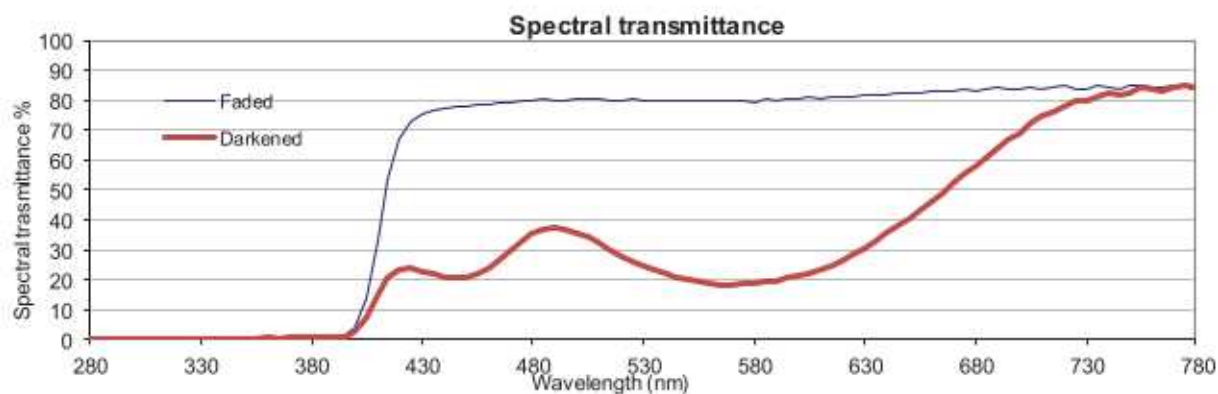
I risultati riportati attengono esclusivamente ai campioni verificati nel corso della prova.

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The results contained in this report refer exclusively to the tested samples.

7.5.6 Sample 3 with pinlock XLT120

Faded state				
Parameter	Limits			Results
Luminous transmittance	80,2%			
Maximum value of solar UV-B transmittance τ_{suvB} - 280nm-315nm	0,2%	$\leq$	4,0%	PASS
Maximum value of solar UV-A transmittance τ_{suvA} - 315nm-380nm	0,4%	$\leq$	80,2%	PASS
Detection of signal lights: INCANDESCENT				
Red (Q)	1,02	$\geq$	0,80	PASS
Yellow (Q)	1,00	$\geq$	0,60	PASS
Green (Q)	1,00	$\geq$	0,60	PASS
Blue (Q)	1,00	$\geq$	0,60	PASS
Detection of signal lights: LED LIGHTS				
Red (Q)	1,02	$\geq$	0,80	PASS
Yellow (Q)	1,00	$\geq$	0,60	PASS
Green (Q)	1,00	$\geq$	0,60	PASS
Blue (Q)	0,99	$\geq$	0,60	PASS
Min spectral transmittance between 475 nm and 650 nm	79,49%	$\geq$	16,0%	PASS
Darkened state				
Parameter	Limits			Results
Luminous transmittance	24,0%			
Maximum value of solar UV-B transmittance τ_{suvB} - 280nm-315nm	0,0%	$\leq$	4,0%	PASS
Maximum value of solar UV-A transmittance τ_{suvA} - 315nm-380nm	0,4%	$\leq$	40,1%	PASS
Detection of signal lights: INCANDESCENT				
Red (Q)	1,23	$\geq$	0,80	PASS
Yellow (Q)	0,97	$\geq$	0,60	PASS
Green (Q)	0,98	$\geq$	0,60	PASS
Blue (Q)	1,27	$\geq$	0,60	PASS
Detection of signal lights: LED LIGHTS				
Red (Q)	1,30	$\geq$	0,80	PASS
Yellow (Q)	0,82	$\geq$	0,60	PASS
Green (Q)	1,30	$\geq$	0,60	PASS
Blue (Q)	1,20	$\geq$	0,60	PASS
Min spectral transmittance between 475 nm and 650 nm	18,33%	$\geq$	4,8%	PASS
Luminous transmittance faded state / Luminous transmittance darkened	3,34	$\geq$	1,25	PASS



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VCA JOB NUMER: VCA014452MANUFACTURER: LEATTTYPE: VISOR ADV 8.5_9.5 LT-V01

The undersigned confirms that the tests conducted under the above job number have been carried out in accordance with the requirements of the specified Regulation/Directive and the Licence between OMEGA S.R.L. and VCA relating to type approval testing.

The undersigned has not been involved in any design nor development work on the products to be approved nor, any related product.



SIGNED:

NAME (in capitals): J.P. CUESTA RUIZ

DATE: 30th August 2024