

EU Type-Examination Certificate

Holder	TTAF ELEKTRONİK SANAYİ VE TİCARET ANONİM ŞİRKETİ KAVAKLI MAH. İSTANBUL CAD. NO:21 34520 BEYLİKDUZU/İSTANBUL TURKEY
Registration No.	C6554TTAF/R0
Product	Face shield
Type, Model	T-PET
Testing basis	Certification Scheme Eye Protection: Category II-Products acc. to PPE-Directive/Regulation (2017-03)
Test reports/Test marks	12711-PZA-20
Marking of the product	Detailed marking see annex
Validity period	2020-09-11 to 2021-09-10
Conformity	DIN CERTCO confirms that the prototype complies with the essential health and safety requirements according to the Annex II of Regulation (EU) 2016/425 on personal protective equipment. This assessment was based on the test samples submitted by the manufacturer or authorised representative, the technical documentation and the test report of the test laboratory.

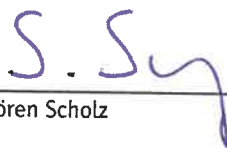
Any previous versions of this EU Type-Examination Certificate hereby cease to be valid.

Please see the annex for further information.

2020-09-11

Dipl.-Wi.-Ing. (FH) Sören Scholz

Notified Body 0196



ANNEX

Certificate	C6554TTAF/RO dated 2020-09-11
Manufacturer's Identification	TTAF
Marking of the product	TTAF CE
Product specification	<p>Mechanical strength: increased robustness S (23°C) Optical class: 1 Protection against droplets and splashes of liquids: 3</p> <p>Ocular Material: PET Colour: Untinted Centre thickness: 0.3 mm</p> <p>Frame Material: Nylon, steel, polyester, polyether Colour: Blue, white, black</p>
Additional product information	<p>The eye protection device meets the basic health and safety requirements of the PPE regulation. It does not offer any protection against mechanical impacts. The eye protection device protects against droplets and splashes of liquids. This reduces the risk of droplet infection. Due to its design, full protection against viruses, bacteria or other biological agents is only given to a limited extent. The eye protection device can be combined with facemasks. The eye protection device shall be disposed of after use. Reuse is at the discretion of the user.</p> <p>Marking of the product: The label (including the manufacturer's code) is not required on the product itself, but shall be applied to each packaging unit.</p> <p>Scope of testing: DIN EN 166:2002-04 Clauses 6.1 / 6.2 / 6.3 / 7.1.1 + 7.2.8 / 7.1.2 / 7.1.7 / 7.2.4 / 10</p>
Regulations/ Liabilities	This EU Type-Examination Certificate is the property of DIN CERTCO and may be withdrawn if the conditions on which its issue was based are no longer met.



ANNEX

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Certificate

C6554TTAF/RO dated 2020-09-11

The information leaflet (instructions for use) for the specified eye protection product must be written in the official language of the country of destination and include, among other things, the following details of the Notified Body:

DIN CERTCO Gesellschaft für
Konformitätsbewertung mbH
Alboinstraße 56
12103 BERLIN
GERMANY

Identification number of the Notified Body: 0196

As far as possible, the product must be marked with a type, batch or serial number or other element allowing its identification.

As far as possible, the product must be marked with the name and postal address of the manufacturer or, if the manufacturer is not based in the European Economic Area, the name and contact address of an authorised representative or importer based in the European Economic Area.

The product or its packaging must be indelibly and unambiguously marked with the month and year of manufacture and/or the month and year of obsolescence.

It is not permitted to mark the product with the identification number 0196.

All changes to the product, the technical documentation or to the quality assurance system must be notified to DIN CERTCO in writing.

The General Terms and Conditions of DIN CERTCO apply.



Test Report

No. 1271-PZA-20
Rev. 0

Contact person: Arafat Rahman

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Akkreditierungsstelle GmbH (DAkKS)
D-PL-11125-01

Customer**TTAF ELEKTRONİK SANAYİ VE TİCARET
ANONİM ŞİRKETİ
KAVAKLI MAH. İSTANBUL CAD. NO:21
34520 BEYLİKDUZU/İSTANBUL
TURKEY**

Test report contains	Main part and 1 annex
Number of pages	7
Product	Face shield
Arrival of samples	2020-06-24 2 nd delivery: 2020-07-14
Period of testing	2020-06-25 to 2020-09-01
Reference Standard	DIN EN 166 : 2002-04
Remarks	Special testing sequence

This test report relates to the mentioned test samples. Without the permission of the DIN CERTCO test centre Nürnberg this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any certification mark.

Nürnberg, 2020-09-02

Compiled by:

**Arafat Rahman, M. Sc.**
- Test Engineer -

Reviewed by:

**Dr. Andreas Winbauer**
- Head of Testing Laboratory -

Test objects, tests and results

Based on the tables as written in the standard DIN EN 166, the main part assigns the test samples to the named tests. Each individual test result is documented in the annexes according to the named standards.

Signs and symbols:

- + meet the requirements
- **do not meet the requirements**
- / not tested or not applicable
- Ab interruption of the testing sequence

The uncertainty of optical measurements corresponds to the required one in DIN EN 167.

Unless stated otherwise, the measurements were carried out in the main viewing point of the samples and, in the case of lenses with corrective power, at the applicable reference point.

Samples and summary of all test results

Type:	Face shield, type "T-PET "
Test mark:	12711-PZA-20
Number of delivered parts: 20	Number of test samples: 18



Test-sequence	Requirements	according to		Tests according to		Sample 0271-1 to 0271-18
		DIN EN	Clause	DIN EN	Clause	
1	User information	166	10	166	10	+
2	Design and manufacturing requirements	166	6	166	6	+
3	Lateral protection	166	7.2.8	168	19	-
4	Field of vision	166	7.1.1	168	18	+
5	Diffusion of light	166	7.1.2.3	167	4	/
6	Spherical refractive power and astigmatic refractive power	166	7.1.2.1	167	3	/
7	Prismatic refractive power	166	7.1.2.1	167	3	/
8	Transmittance	166	7.1.2.2	167	6	/
9	Increased robustness	166	7.1.4.2	168	3	/
10	Resistance to ignition	166	7.1.7	168	7	/
11	Protection against splashes of liquids	166	7.2.4b	168	10.2	/


Individual results of each test sample see annex 1

Marking:

Frame:	Face Shield Direct Splash Protection
Oculars:	None

2nd delivery from 2020-07-14:

Samples and summary of all test results

Type:	Face shield, type "T-PET "					
Test mark:	12711-PZA-20					
Number of delivered parts: 18			Number of test samples: 18			
						
Test-sequence	Requirements	according to		Tests according to		Sample 0271-19 to 0271-36
		DIN EN	Clause	DIN EN	Clause	
1	Design and manufacturing requirements	166	6	166	6	+
2	Lateral protection	166	7.2.8	168	19	+
3	Field of vision	166	7.1.1	168	18	+
4	Diffusion of light	166	7.1.2.3	167	4	+
5	Spherical refractive power and astigmatic refractive power	166	7.1.2.1	167	3	+
6	Prismatic refractive power	166	7.1.2.1	167	3	+
7	Transmittance	166	7.1.2.2	167	6	+
8	Increased robustness	166	7.1.4.2	168	3	+
9	Resistance to ignition	166	7.1.7	168	7	+
10	Protection against splashes of liquids	166	7.2.4b	168	10.2	+
Individual results of each test sample see annex 1						

Marking:

Frame:	Face Shield Direct Splash Protection
Oculars:	None

ANNEX 1

Type:	Face shield, type "T-PET"
Test mark:	12711-PZA-20

Description of the type

Condition of the test item at delivery:	Undamaged
Frame:	Material: Plastics, foam, metal, elastic band Colour: Blue, white, black
Oculars:	Material: Plastics Colour: Untinted Centre thickness: 0.5 mm Dimension: 230 mm x 220 mm
User information:	Available and complete, including additional information
Design and manufacturing requirements:	Fulfill the requirements

Lateral protection and field of vision

Test↓	Sample →	0271-1	0271-2	0271-3
Lateral protection		-	-	-
Field of vision		+	+	+

Type:	Face shield, type "T-PET"
Test mark:	12711-PZA-20

2nd delivery from 2020-07-14:

Description of the type

Condition of the test item at delivery:	Undamaged	
Frame:	Material:	Plastics, foam, metal, elastic band
	Colour:	Blue, white, black
Oculars:	Material:	Plastics
	Colour:	Untinted
	Centre thickness:	0.3 mm
	Dimension:	330 mm x 220 mm
Design and manufacturing requirements:	Fulfill the requirements	

Diffusion of light, refractive powers, transmittance, lateral protection and field of vision

Test↓	Sample →		0271-19	0271-20	0271-21
Reduced luminance coefficient	R	cd/m ²	0.28	0.39	0.34
	L	lx	0.37	0.33	0.38
Spherical power	R	dpt	-0.02	-0.02	-0.02
	L	dpt	-0.02	-0.02	-0.01
Astigmatic power	R	dpt	0.01	0.01	0.01
	L	dpt	0.01	0.01	0.01
Difference in prismatic effect horizontal	cm/m		0.08 Base out	0.10 Base out	0.10 Base out
Difference in prismatic effect vertical	cm/m		0.00	0.00	0.00
Optical class			1	1	1
Luminous transmittance τ_{v1} based on CIE source A	R	%	91.5	90.9	91.3
	L	%	91.0	90.8	91.1
Lateral protection			+	+	+
Field of vision			+	+	+

Type:	Face shield, type "T-PET"
Test mark:	12711-PZA-20

Increased robustness

Ambient temperature: (23±5) °C

Sample	Impact point	Comments
0271-22	1	+
0271-23	1	+
0271-24	2	+
0271-25	2	+
0271-26	3	+
0271-27	4	+
0271-28	1	+
0271-29	1	+
0271-30	2	+
0271-31	2	+
0271-32	3	+
0271-33	4	+

Impact point 1: left eye frontal
Impact point 2: right eye frontal

Impact point 3: left eye side
Impact point 4: right eye side

Resistance to ignition

Test ↓	Sample →	0271-25	0271-26	0271-27
Resistance to ignition		+	+	+

Protection against splashes of liquids

Test ↓	Sample →	0271-34	0271-35	0271-36
Comments		+	+	+