Test report sunglasses acc. to ISO 12312-1:2013/A1:2015 and to ISO 12312-3:2022

Manufacturer: SAP number: Lens material: Lens colour:	Zhangzhou TONY Optical CO., LTD. VE03200201 POLYCARBONATE GRAY	Model: Manufacturer's nun Frame material:	nber:	STONED G4164 S10701 AS11 POLYAMIDE(PA)	
Item	Requirement	Relevant clause of ISO 12312-1:2013	Result		Pass/Fail
Construction	smooth material without sharp projections	4.1	ОК		Pass
Filter material and surface quality	no material or machinig defects	4.2	ок		Pass
Physiological compatibility	nonhazardous materials	4.3	ОК		Pass
Luminous Transmittance /T _{vis} [%]	according to claimed filter category	5.2, according to table	T _{vis} : cat:	L: 11.82% 3	Pass
UV-absorption	according to claimed filter category	5.2, according to table		400	Pass
UV 400	solar UV up to 400 nm below 0,5 %	5.3.5.2	0.00%		Pass
Homogenity T _{vis} left to right lens	< 15 % rel.	5.3.1	4%		Pass
Homogenity Tvis within the lens	Cat. 0.1.2.3 < 10 % Cat. 4 < 20 %	5.3.1	L:1.8% R:1.4%		Pass
Requirements for road use	T spectral detection of signal lights (Q values)	5.3.2.2 5.3.2.3	OK R:1.12 Y:1.05 G:1.00 B:0.98		Pass
Driving in twilight or at night	Tvis > 75 %	5.3.2.4	NOT SUITABLE		
Wide angle scattering [%]	< 3 %	5.3.3	0.37%		Pass
Photochromic effect	T _{V0} /T _{V1} ≥ 1,25	5.3.4.1	NONE		
Polarizing effect	Cat. 2,3,4 > 8:1 Cat. 1 > 4:1	5.3.4.2	NONE		
Spherical power [dpt.]	sph ± 0,12		6.1 L:0.00 R:0.03		Pass
Astigmatic power [dpt.]	astigm. ≤ 0,12	6.1			
Prism imbalance [cm/m]	horizontal base out ≤ 1,0 base in ≤ 0,25 vertical ≤ 0,25	6.3	0.07 NONE 0.00		Pass
Minimum robustness	no filter fracture or filter deformation	7.1	ОК		Pass
Frame deformation	no fracture or permanent deformation, filter not detached	7.2	ок		Pass
Resistance to solar radiation	change in luminous transmittance according to table 4 scattering < 3% T _M /T _{VI} ≥ 1.25 all UV requirements still fullfilled	8	OK OK NONE OK		Pass
Resistance to ignition	no ignition or glowing	9	ОК		Pass
Protective requirements	two ellipses covered temporal protection for cat.4 glasses	11.1	OK NONE		Pass
Information and labelling	all required information added	12.1	ОК		Pass

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Confirmation:	Manufacturer: Zhang	2 光学和44 S CO., LTD.		SAS VOLCOM	i
	Date 2022-04-29	101110002401 101110002401	signature 书、お、慧、	Date	Signature