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## 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. VE02902503 PC BRONZE	Model: Manufacturer's nun Frame material:	JAM Der: G2596 M85361B POLYAMIDE(PA)	B15	
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 /Tvis [%]	according to claimed filter category	5.2, according to table	T <sub>vis</sub> : L: 16.46% cat: 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 <sub>vis</sub> left to right lens	< 15 % rel.	5.3.1	1%	Pass	
Homogenity Tvis within the lens	Cat. 0.1.2.3 < 10 % Cat. 4 < 20 %	5.3.1	L:1.4% R:1.8%	Pass	
Requirements for road use	T spectral detection of signal lights (Q values)	5.3.2.2 5.3.2.3	OK R:1.29 Y:1.16 G:0.93 B:0.72	Pass	
Driving in twilight or at night	Tvis > 75 %	5.3.2.4	NOT SUITABLE		
Wide angle scattering [%]	< 3 %	5.3.3	0.31%	Pass	
Photochromic effect	T <sub>vo</sub> /T <sub>v1</sub> ≥ 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		L:0.02 R:0.03	Deer	
Astigmatic power [dpt.]	astigm. ≤ 0,12	6.1	L:0.01 R:0.03	Pass	
Prism imbalance [cm/m]	horizontal base out ≤ 1,0 base in ≤ 0,25 vertical ≤ 0,25	6.3	0.04 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 % $T_{Ve}/T_{Vr} \ge 1.25$ 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 11.2	OK NONE	Pass	
Information and labelling	all required information added	12.1	ОК	Pass	

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Confirmation:	Manufacturer: Zhang 2 Harris All C. CO., L	.TD.	SAS VOLCOM	I
	Date 2022-01-17	Signature 若、た、慧、	Date	Signature