AVANTIPERFECTO



Fox: 03-55445886 www.sirim-gas.com.my

TEST REPORT

REPORT NO: 2019CB1316

PAGE: 1 OF 5

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THIS TEST REPORT IS ISSUED IN SECURED PDF SOFTCOPY

Applicant

: AVANTI PERFECTOR SDN. BHD. No. 25, Jalan Tembaga SD5/2H, 52200 Sri Damansara Industrial Park, Selangor, Malaysia.

Manufacturer

PRIVATE & CONFIDEN

Product

: Automotive Window Film

Reference Standard /

: MS 2669:2017 (AMD, 1:2018)

Method of Test

Tint film on glazing of road vehicles - Methods and requirements of light transmittance, ultraviolet transmittance, total solar energy transmittance,

and other related factors (Details description of clauses tested - Refer Page 2)

Description of Test

Description of sample / : Two sets of Automotive Window Film were received for testing.

(Details description of samples - Refer Page 2)

Specimen Date Received of

Complete Application

: 18 June 2019

Job No. Description of Test

Results / Overall Test Result

: J20191430941

: The test report covers only test clauses as requested by Applicant to SIRIM QAS International Sdn. Bhd. The test results of the submitted test samples as described in this test report complied with the requirements of the above reference standard at the respective clauses tested, except

Clause 4.3: Weathering Test for sample Care Series 70.

Issued Date

: 15 August 2019

Approved Signatories:

(MUHAMMAD HAZMIE BIN OT) **Testing Executive**

DR SIHA BINTI RAJA ABDUL HANAN) Head

Civil & Construction Section Testing Services Department

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Table 1: Test specification for solar performance

the state of the s	Type of testing	Measurement range (nm)	Requirement		
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Sample No.2 : SF Series 50

Classification Application

Class A1

Front Side Windows

Clause	Specifications / Requirements	Result	Remark
4.2	Solar Performance Solar performance requirements shall be specified in Table 1. Solar performance shall include visible light transmittance, ultraviolet transmittance and total solar energy transmittance (s factor).	Visible light transmittance for combination, VLT _c : 55.86 % Ultraviolet transmittance: 0.37 % Total solar energy performance (solar factor): 0.35	Pass (Class A) Pass (Class 1)
4.3	Weathering Test There shall be no obvious colouringes when comparing exposed sample and control sample. The difference of visible light transmittance between before and after exposure shall be not more than 4 %.	No obvious colour changes. 0.35 %	Pass
4.4.2	Bake Test All test samples shall not have bubble or other defects produced (delamination and discoloration).	 Sample 1: No defect observed. Sample 2: No defect observed. Sample 3: No defect observed. 	Pass Pass





SP-Series 50 Classification : Class A1 Application : Class A1 Application : Class A1 Application : Front Side Windows Specifications / Requirements shall be conditionable for transmittance and performance requirements shall be combination with transmittance and ultraviolet transmittance and ultraviolet transmittance (solar transmittance) (53.8 % Lober energy transmittance (solar transmittance) (53.8 % Lober energy transmittance (solar transmittance) (53.8 % Lober energy transmittance and ultraviolet transmittance transmittance; (53.8 % Lober energy transmittance combination and cration), Test samples shall not have bubble or diffects produced (determination and cration), Test samples shall not have bubble or observed. Sample 2: No defect observed. Pass observed. Pass Pass observed. Pass Pass observed. Pass	Specifications / Requirements Specifications / Requirements Application : Class A1 Application : Pront Side Windows Wisble light transmittance and Usanshitance for combination, VATC: SS. 86 % Usanshitance for combination of sample and comparing exposted sample and filterence of visible light transmittance an apple and after exposure shall be core than 4 %. Test tsamples shall not have bubble or defect produced (delamination and observed. Sample 2: No defect pass observed. Pass Sample 3: No defect pass Pass Disperved. Pass Pass Pass Pass Charges. Pass Charges. Pass Charges. Pass Charges. Pass Pass Charges. Pass Charges. Pass Charges. Pass Charges. Pass Pass Charges. Pass Pass Pass Charges. Pass Pass Charges. Pass Pass Charges. Charges. Charges. Pass Charges. Cha		uo.w	4.4.2 Bake All to Other	The between not n	4.3 Wes The whe		fied in	t 18 488	Clause	Sample No.2
Class A1 Front Side Windows Result Pass mittance for mation, VATC SLB % Pass traviolet traviolet (Class A) solar energy formance factor); 0.35 % (Class A) sactor); 0.35 % Pass harges. 0.35 % Pass ved. 0.35 % Pass ved. Pass	Class A3 Front Side Windows Result Front Side Windows Result Remark Remark Remark Remark Remark Remark Pass Ritance: 0.37 % (Class A) Solar energy formance Pass Rector): 0.35 % Fass O.35 % Pass Pass ved. Pass ved. Pass ved. Pass ved. Pass ved. Pass ved. Pass rectory Pass Pass rectory Pass Pass Pass rectory Pass Pass Pass rectory Pass rectory Pass Pass rectory Pass rectory Pass Pass rectory Pass		out society)	les shall not have bubble or produced (delamination and	The difference of visible light transmittance between before and after exposure shall be not more than 4 15.	Weathering Test There shall be no obvious colour changes when comparing exposed sample and control sample.		total solar energy transmittance (solar factor).	Solar Performance Solar performance requirements shall be specified in Table 1. Solar performance shall include visible light	Specifications / Requirements	: SF Series 50
					0.35%	No obvicus colour charges.	Total solar ariergy performance (solar factor); 0.35	Ultraviolet transmittance: 0.37 %	Visible light transmittance for combination, VLT _C . 55.86 %	Result	85.6
		Pass	Pass	Pass	Pass		tries resid	Pags (Class A)	7	Remark	le Windows
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Ultra clarity / Special Treatment For UV Protection