

Address: Ostim Mah. Alinteri Bulvari SS Gul 86 San. Sit. No:1/49 06370 Ostim/ANKARA/TURKEY

Phone: 0 312 385 52 01-03 Fax: 0 312 385 52 02



AB-0547-T

3570-2/2

12-20

TEST REPORT

Customer Name / Address

KÜRKÇÜOĞLU JENERATÖR SAN. VE TİC. A.S.

Sanayi Mah. Uran Sok. No: 3/1 Pendik / İSTANBUL

Order No / Date

4751 / 27.08.2020

Name and Identity of the Test Sample

Poliester Powder Paint Coated Steel Panel

The Date of Receipt of the Test Sample

29.08.2020

Remark(s)

INTERMEDIATE CONTROL REPORT (3570-1/1K) HAS BEEN PUBLISHED AND

SUBMITTED PREVIOUSLY.

Date of the Test

08.09.2020 - 30.11.2020

Number of Page of the Report

4

METALTEK TEKNOLOJI KIMYASAL URUNLER LTD. STI. had been accredited by TURKAK under registration number AB-0547-T for EN ISO/IEC 17025:2017 as test laboratory.

Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.

The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

Seal

Date of the Issue

Person in Charge of the Test

Writer of the Report Gözde GÖKTAŞ

Approval **Tuncay KATIRCI**

01.12.2020 TEKNOL

Nurehan YEŞİLYURT Chemist Test Operator

Chemist Report Writing Manager **Chemical Engineer**

Lab. Manager

TEST & ANALYSIS LABORATORY

The test results are only valid for tested samples. Sampling is not performed by our laboratory, laboratory is not responsible for tested samples. This report shall not be reproduced other than in full except with the permission of the laboratory. Test report without signature and seal are not valid. FP.09.03 Rev.No.: 01 Issue Date: 02.12.2019 Page 1/4



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1. CUSTOMER DEMAND:

The tests below given table must be carried out on the samples that are identified at the section 2. The test results must be evaluated and reported after the tests.

Referrer Standard	Name of the Test	Test Standard	Evaluation Standard	Intermediate Control Time	Test Duration
	Corrosion Tests in Artificial Atmospheres — Salt Spray Tests - NSS	TS EN ISO 9227	*EN ISO 4628-2, *EN ISO 4628-3, *EN ISO 4628-4, *EN ISO 4628-5, *EN ISO 4628-8, EN ISO 2409	1500 th hour	2000 hour

2. SAMPLE UNDER THE TEST:

All information regarding the samples has been declared by the customer below given table.

Name of the Sample	Substrate Material	Pre-Treatment Process	Base Coat	Topcoat	Brand / Model	Preparation / Condition of the Sample	Dimension / Piece
Panel	Steel		Cataphoresis	Poliester Powder Paint		By the Customer	150x100x2 mm / 6 Pieces

3. TEST AND EVALUATION STANDARDS:

EN ISO 9227	Corrosion Tests in Artificial Atmospheres — Salt Spray Tests
EN ISO 2178	Non-Magnetic Coatings on Magnetic Substrates - Measurement of Coating Thickness - Magnetic Method
EN ISO 2409	Paints and Varnishes — Cross-Cut Test
*EN ISO 4628-2	Paints and Varnishes - Evaluation of Degradation of Paint Coatings - Designation of Quantity and Size Defects, and of Intensity of Uniform Changes in Appearance - Part 2: Assessment of Degree of Blistering
*EN ISO 4628-3	Paints and Varnishes - Evaluation of Degradation of Paint Coatings - Designation of Quantity and Size Defects, and of Intensity of Uniform Changes in Appearance - Part 3: Assessment of Degree of Rusting
*EN ISO 4628-4	Paints and Varnishes - Evaluation of Degradation of Paint Coatings - Designation of Quantity and Size Defects, and of Intensity of Uniform Changes in Appearance - Part 4 : Assessment of Degree of Craking
*EN ISO 4628-5	Paints and Varnishes - Evaluation of Degradation of Paint Coatings - Designation of Quantity and Size Defects, and of Intensity of Uniform Changes in Appearance - Part 5 : Assessment of Degree of Flaking
*EN ISO 4628-8	Paints and Varnishes - Evaluation of Degradation of Paint Coatings - Designation of Quantity and Size Defects, and of Intensity of Uniform Changes in Appearance - Part 8: Assessment of degree of Delamination and Corrosion Around a Scribe

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4. TEST EQUIPMENT INFORMATION:

Test Equipment Name	Calibration Validity Period	Manufacturer	
Neutral Salt Spray Test Cabinet MT-SiS-087	21.01.2020 – 21.01.2022	Q-LAB	
Conductivity Meter MT-ILT-156	Calibration is done before every test.	HANNA	
pH Meter MT-PHM-110	Calibration is done before every test.	THERMO SCIENTIFIC	
Cross-Cut Blade MT-KSM-107 (2 mm) MT-KSM-108 (3mm)	21.05.2020 – 21.05.2021	вүк	
Film Thickness Meter MT-KAL-119	29.05.2020 – 29.05.2021	DEFELSKO	

5. TEST RESULTS:

5.1. The Tesults Before the Tests:

Evaluation Criteria	Test R	Results	
Evaluation officeria	Sample-5	Sample-6	
Film Thickness, µm	75.43	129.2	
Adhesion Degree	Class 0	Class 0	

5.2. Test Results After the Tests:

	Requirements	Test Results			
Evaluation Criteria	Determined by the Laboratory	Sample-1	Sample-2	Sample-3	
Film Thickness, µm		113.66	108.92	101.5	
Adhesion Degree	≤ Class 2	Class 0	Class 0	Class 0	
Degree of Blistering	≤2(S2)	0(S0)	0(S0)	0(S0)	
Degree of Rusting	≤Rİ2	Ri0	Ri0	Ri0	
Degree of Cracking	0(S0)	0(S0)	0(S0)	0(S0)	
Degree of Flaking	0(S0)	0(S0)	0(S0)	0(S0)	
Delamination Around the Scribe, mm		1.2	1.4	1.7	
Corrosion Creepage Around the Scribe, mm	Max. 2.0 mm	0.7	0.9	1.7	
	CONCLUSION	PASS	PASS	PASS	

Test results were evaluated according to the "Basic Decision Rule" and declaration of suitability was made according to the limit value without evaluating the confidence level and measurement uncertainty.

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TÜRKAR TÜRKAR Test 15 EH ISO JEC 17025 AB480-1

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Note-1/5: Uncertainty measurement of the film thickness test was calculated by our laboratory is $\pm 1.8 \ \mu m$ for between 0 $- 250 \ \mu m$ range.

Note-2/5: Uncertainty measurement of the delamination and corrosion creepage around the scribe were calculated by our laboratory are ±0.2 mm.

Note-3/5: There is not any abnormality or incident occurring during the entire test.

Note-4/5: Tested samples were sent to the customer with the test report.

Note-5/5: Appendices of the test report are only sent to customer by e-mail. They are not submitted in addition to the original test report.

Appendix-1/2: Test Photographs

Appendix-2/2: Photographs of the Reference (These photographs are published in the original test standards)

The test standards that are shown with * aren't in our accreditation test scope.

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