



Report No/ Rapor No : 2023070322
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Sample Accepted on/Numune Tarihi : 01.02.2023
Report Date / Rapor Tarihi : 07.03.2023
Total number of pages/Rapor Sayfa : 3 Page

Sample ID : HRCAY-50-9

	TEST	METHOD	Specimen	RESULT
-	Plastics - Artificial irradiation or weathering in equipment - Part 3: UV - fluorescent lamps	ISO 4892-3:2016	HRCAY-50-9	See Tables

NOTE: This test result replaces the conformity assessment, can be presented to official institutions, and used in products and brochures.



Seal

Customer Representative
Merve Nur KIRVELİ

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Test results, methods and other information about the sample shown in the relevant pages of this Report are based on the information specified in accordance with "Test Request Form (PR03-F01) conveyed to us from the Applicant. Test results are valid for the sample as identified above. Sample may not represent the lot which it belongs. This Report does not replace a Product Certificate. Full report or any part of it may not be reproduced or used for any other purpose without the written permission of EUROLAB Laboratory. Sampling has not been done by us. Unsigned and unsealed Reports are invalid. Analysis as indicated with "*" are in the Scope of our Accreditation Certificate issued from UAF according to TS EN ISO/IEC 17020, 17025, Analysis as indicated with "**" are performed at the external laboratories using accredited test methods according to EN ISO/IEC 17020, 17025 from UAF. Possible extra notes may add with starting "N" to related pages. Tested and remaining samples will be kept in specified terms & conditions at test request and/or proposal form. Physically, chemically and microbiologically decomposed samples are discarded regardless of the storage period. Applicant can not claim any right in this regard. Results are shown in this Report do not include Measurement Uncertainty values. Measurement Uncertainty values are not taken in consideration during Pass/Fail assessment the of test results shown in this Report. Evaluation of the test results using Measurement Uncertainty values is the responsibility of the Applicant.

PR33-F01/08.10.2015/Rev:17.01.2017-R01

Scope

This part of ISO 4892 specifies methods for exposing test samples to UV fluorescent lamp radiation, heat, and water in an apparatus to simulate the effects of weathering that occurs when materials are exposed to spherical radiation or spherical radiation behind window glass in real end-use environments.

Table — Stress Cycles

Method A: Artificial weathering with UVA-340 lamps				
Cycle Number	Stress Period	Lamp Type	Irradiance	Black Panel Temperature
1	8 h dry 4 h condensation	UVA-340 (Type 1A)	0.76 W/(m ² nm) (at 340 nm) UV lamps off	(60 ± 3) °C (50 ± 3) °C
2	8 h dry 0,25 h water spray 3,75 h condensation	UVA-340 (Type 1A)	0.76 W/(m ² nm) (at 340 nm) UV lamps off UV lamps off	(50 ± 3) °C Not regulated (50 ± 3) °C
3	5 h dry 1 h water spray	UVA-340 (Type 1A)	0.83 W/(m ² nm) (at 340 nm) UV lamps off	(50 ± 3) °C Not regulated
4	5 h dry 1 h water spray	UVA-340 (Type 1A)	0.83 W/(m ² nm) (at 340 nm) UV lamps off	(70 ± 3) °C Not regulated

Procedure

It is recommended that at least three test samples be irradiated for each test of each material to be evaluated, to ensure statistical evaluation of the results.

The test chamber shall be equipped with a device through which, under certain conditions, the front of the test specimen can be cyclically wetted by condensation or water spray. Condensate or spray water should be evenly distributed over the test samples.

Test samples should be checked in the test chamber during the condensation period at least 1 hour after the start of the condensation cycle to determine if condensation is actually visible on the test surface.

The conductivity of the water sprayed on the surface of the test sample should be less than 5 µS/cm, less than 1 mg/l (less than 1 ppm₁). It must be ensured that the silicon content is below 0.2 mg/l (0.2 ppm). A combination of deionization and reverse osmosis can be used to produce water of the desired quality.

Test Result

Sample	Test	Color Values Before Test	Post-Test Color Values
HRCAY-50-9	UVA-340 lamps	L:	11,83
		a:	-1,56
		b:	-0,17
		Brightness	0001,5 gu
The test specimens were exposed to 720 hours.			

Test Sample	UV Exposure Time	Gray Scale	Customer Requirement	Result
HRCAY-50-9	720 Hour	4	---	Pass

According to ISO 105-A02: 1993 / Cor.2: 2005, under the gray scale D65 standard light, the best scale was determined as 5 and the worst scale as 1.

The results were performed within 1 hour after the specified times at the end of the exposure, as well as the interim examination.

Sample Image



*****End Of Report*****