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Sample ID : **Needled Punch Industrial Felt**

	TEST	METHOD	RESULT
-	Plastics - Artificial radiation or weathering in devices - Part 3: UV fluorescent lamps	ISO 4892-3: 2016	PASS
-	Suspended Ceilings -Requirements And Test Methods	EN 13964 : 2014	PASS

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



Seal

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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

ISO 4892-3-2016 : Plastics - Artificial radiation or weathering in devices - Part 3: UV fluorescent lamps

Scope

This part of ISO 4892 specifies methods in which test samples in an instrument are exposed to UV fluorescent lamp radiation, heat, and water to simulate the corrosion effects that occur when materials are exposed to global radiation or global radiation behind window glass.

Conditioning

Exposure Cycles

Method A: Artificial accelerated aging with UVA-340 lamps				
Cycle No.	Exposure Time	Lamp Type	Brightness	Black Panel Temperature
	8 hours dry 4 hours condensation	UVA-340 (type 1A)	0,76 W·m ⁻² × nm ⁻¹ at 340 nm UV lamps off	60 °C ± 3 °C 50 °C ± 3 °C
	8 hours dry 0.25 hours water spray 3.75 hours condensation	UVA-340 (type 1A)	0,76 W·m ⁻² × nm ⁻¹ at 340 nm UV lamps off	50 °C ± 3 °C Not controlled 50 °C ± 3 °C
	5 hours dry 1 hour water spray	UVA-340 (type 1A)	0,83 W·m ⁻² × nm ⁻¹ at 340 nm UV lamps off	50 °C ± 3 °C Not controlled
	5 hours dry 1 hour water spray	UVA-340 (type 1A)	0,83 W·m ⁻² × nm ⁻¹ at 340 nm UV lamps off	70 °C ± 3 °C Not controlled

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 ppm). 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 Results

Sample	Test	Color Values Before Test	Post-Test Color Values	
Needled Punch Industrial Felt	UVA-340 lamps	L:	53.44	50.49
		a:	1.76	0.94
		b:	-2.37	-3.14
		Brightness	0002.0 GU	0002.3 GU

EN 13964 : 2014 - Suspended Ceilings -Requirements And Test Methods

Scope

This European Standard covers membranes, individual substructure components, substructure kits and suspended ceiling kits intended to be placed on the market.

Classification Of Ceiling Exposure Conditions

The ceiling or component manufacturer shall state which of the classes of exposure of Table the suspended ceiling or component complies with the requirements.

Requirements	Result
The ceiling manufacturer shall state if the visible surfaces of the ceiling membrane and substructure are cleanable and, if so, what cleaning technique is required and what limitations apply	-
The ceiling manufacturer shall state if the visible surface of the ceiling membrane and substructure is re-paintable and, if so, what materials and techniques are recommended and what, if any, aspects of the ceiling's performance would be affected	-
The ceiling manufacturer shall state the likely effect of the cleaning and painting on other aspects of the performance of the ceiling	-
The ceiling manufacturer shall state the minimum maintenance requirements necessary to enable the ceiling to continue to meet its claimed performance during its working life	-

Flexural Tensile Strength

Table 8 — Classes Of Exposure

Class	Conditions
A	
B	Building components exposed to varying relative humidity up to 90 % and varying temperature up to 30 °C but without corrosive pollutants
C	Building components exposed to varying relative humidity up to 95 % and varying temperature up to 30 °C and accompanied by a risk of condensation but without corrosive pollutants
D	More severe than the above

Annex F (Normative) Membrane Components – Flexural Tensile Strength Test

Table F.1 - Conditioning Of Test Samples

	Temperature (°C)	Humidity (%RH)	Duration (h)
B	30 ± 2	90 ± 5	168 ± 1
C		90 ± 5	
D	Conditioning as specified by the manufacturer (in accordance with Table 8)		

Procedure

Weigh the test specimen, take and record the measurements (i.e. length, width, height/thickness, material thickness). Mount the test specimen in the test frame, which consists out of the grid that the product is intended to use with or in a test frame representative for the end use conditions. Where relevant, test samples shall be submitted to testing within 30 min after leaving the conditioning chamber.

Test Without Loading (Minimum Normative Requirement)

At least 5 test samples shall be subjected to testing.

Loading

The specimen shall be loaded with 2,5 times the dead weight of the specimen; a uniformly distributed load, which shall be capable to follow the shape of the deflecting sample. The load shall be maintained for a duration of (600 ± 10) s.

Exposure Class According To Table 8	Load Type (One Or More Of The Following Options)
A	No load (-) Point load (N) Linear load (N/m1) Evenly distributed load (N/m2)
B	
C	
D	

Sample	Number of Test Performed	Class	Flexural Tensile Strength
Needled Punch Industrial Felt	5	B	610 N

Sample Image



*****End of Report*****