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Prominace Window Systems
Captiv Fenestration
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2 May 2019 / km

Test order no. 122109/16
Interim results of the weathering fastness test according to DIN EN 12608-1: 2016-08

Dear Mr. Shan, dear Mr. Devarajan,

Please find below the following results of the interim assessment of the weathering fastness test after artificial weathering of **22,000** hours:

Irradiation energy: 44 GJ/m²

Artificial weathering according to (DIN) EN 513, procedure 2 (simulation of a severe climatic zone S) up to an raised irradiation dose of 50 GJ/m² in the wave length range between 300 nm and 800 nm.

1. Colourimetric assessment:

The sample colour was measured by means of a spectrophotometer of a wave length area of 360-750 nm, standard light type D65, 10° normal inspection. The colour distance ΔE^*_{ab} was determined according to DIN EN ISO 11664-4. Prior to and after artificial weathering, colour was measured at the same position on the sample to obtain reproducible results.

Please note that the colourimetric assessment of the structured foils can only be taken as a guide value.

Sample designation: PROMINANCE PC62 US 04 21.04.16 19:25 AGRN L7

Time of exposure	Dose of irradiation	Colour coordinates			Total colour distance ΔE^*_{ab}
		ΔL^*	Δa^*	Δb^*	
1000 h	2 GJ/m ²	0.5	0.1	-1.6	1.7
2000 h	4 GJ/m ²	0.6	0.0	-1.3	1.4
3000 h	6 GJ/m ²	0.7	0.0	-1.4	1.6
4000 h	8 GJ/m ²	0.6	0.0	-1.6	1.7
5000 h	10 GJ/m ²	0.6	0.0	-1.6	1.7
6000 h	12 GJ/m ²	0.6	0.0	-1.6	1.7
7000 h	14 GJ/m ²	0.6	0.0	-1.7	1.8
8140 h	16 GJ/m ²	0.7	0.0	-1.7	1.8
9000 h	18 GJ/m ²	0.7	0.0	-1.7	1.8
10215 h	20 GJ/m ²	0.7	0.0	-1.8	1.9
11000 h	22 GJ/m ²	0.6	0.0	-1.6	1.7
12000 h	24 GJ/m ²	0.7	0.0	-1.5	1.7
13000 h	26 GJ/m ²	0.7	0.0	-1.6	1.8
14000 h	28 GJ/m ²	0.7	0.0	-1.7	1.8
15278 h	30 GJ/m ²	0.7	0.0	-1.6	1.8
16000 h	32 GJ/m ²	0.7	0.0	-1.7	1.8
17000 h	34 GJ/m ²	0.7	0.0	-1.6	1.8
18000 h	36 GJ/m ²	0.8	0.0	-1.5	1.7
19000 h	38 GJ/m ²	0.7	-0.1	-1.4	1.6
20382 h	40 GJ/m ²	0.7	-0.1	-1.2	1.4
21000 h	42 GJ/m ²	0.7	-0.1	-1.4	1.6
22000 h	44 GJ/m ²	0.8	0.0	-1.6	1.8
23000 h	46 GJ/m ²	-	-	-	-
24000 h	48 GJ/m ²	-	-	-	-
25000 h	50 GJ/m ²	-	-	-	-

2. Visual assessment

Visual assessment was performed according to DIN EN 20105-A02 with the grey scale.

Time of exposure	Dose of irradiation	Grey scale value		Remark
		A 02	A 03	
1000 h	2 GJ/m ²	4	-	lighter
2000 h	4 GJ/m ²	4 - 5	-	lighter, duller
3000 h	6 GJ/m ²	4 - 5	-	lighter, duller
4000 h	8 GJ/m ²	4 - 5	-	lighter, duller
5000 h	10 GJ/m ²	4 - 5	-	lighter, duller
6000 h	12 GJ/m ²	4	-	lighter, duller
7000 h	14 GJ/m ²	4	-	lighter, duller
8140 h	16 GJ/m ²	4	-	lighter, duller
9000 h	18 GJ/m ²	4	-	lighter, duller
10215 h	20 GJ/m ²	4	-	lighter, duller
11000 h	22 GJ/m ²	4	-	lighter, duller
12000 h	24 GJ/m ²	4	-	lighter, duller
13000 h	26 GJ/m ²	4	-	lighter, duller
14000 h	28 GJ/m ²	4	-	lighter, duller
15278 h	30 GJ/m ²	4	-	lighter, duller
16000 h	32 GJ/m ²	4	-	lighter, duller
17000 h	34 GJ/m ²	4	-	lighter, duller
18000 h	36 GJ/m ²	4	-	lighter, duller
19000 h	38 GJ/m ²	4	-	lighter, duller
20382 h	40 GJ/m ²	4	-	lighter, duller
21000 h	42 GJ/m ²	4	-	lighter, duller
22000 h	44 GJ/m ²	4	-	lighter, duller
23000 h	46 GJ/m ²	-	-	-
24000 h	48 GJ/m ²	-	-	-
25000 h	50 GJ/m ²	-	-	-

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If you have any questions, don't hesitate to contact me.

Best regards

SKZ - Testing GmbH

i. A.



Wolfgang Ries

Deputy Group Manager Testing Profiles and Sealants

PROMINANCE
UPVC WINDOW SYSTEMS