Innovative Kunststoffaufbereitung GmbH & Co. KG

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For the attention of Mr Avanish Singh Visen
ENCRAFT INDIA PVT. LTD.
Part of DCJ Group
Corporate Office: 70
Okhla Industrial Estate
Phase -3, New Delhi – 110020
INDIA

Ihr Zeichen	Ihre Nachricht vom	Unser Zeichen	Telefon, Name	Datum
		TH	-85	28.07.2020

Dear Mr. Singh Visen,

please find attached Technical Report Number 130421/18 from Das Kunststoff-Zentrum (SKZ) detailing the results of the testing conducted on a white window profile produced by Encraft and based upon IKA 7630 Calcium Zinc stabiliser.

SKZ conducted resistance to weathering testing to the European Standard EN 12608:2003 (Unplasticized polyvinylchloride (PVC-U) profiles for the fabrication of windows and doors) clause 5.8, in accordance with EN 513, climatic zone S (severe). The profiles were exposed to a radiation dose of 24 GJ/m2 which is deemed to be equivalent to much more than 5 years external exposure in severe conditions. The profile was found to meet and exceed the requirements defined for colour fastness.

For and on behalf of IKA GmbH & Co.KG,

Thomas Hillen
Managing Director

Innovative Kunststoffaufbereitung GmbH & Co. KG

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ENCRAFT – weathering information

External measurement at SKZ – Testing GmbH of a white window profile produced by ENCRAFT India Pvt Ltd and based upon IKA 7630 Calcium Zinc stabiliser was tested by Xenotest accelerated weathering according to DIN EN 513: 1999-10, procedure 2.

Test condition:

Procedure:	DIN EN 513:1999-10, procedure 2
Device type:	Xenotest Beta-LM
Light source:	Xeno arched irradiation
Black panel temperature:	65 ± 3 °C
Relative humidity:	65 ± 5 %
Dry cycle:	114 min
Wet cycle:	6 min
Irradiation - wavelength range	300 – 800 nm

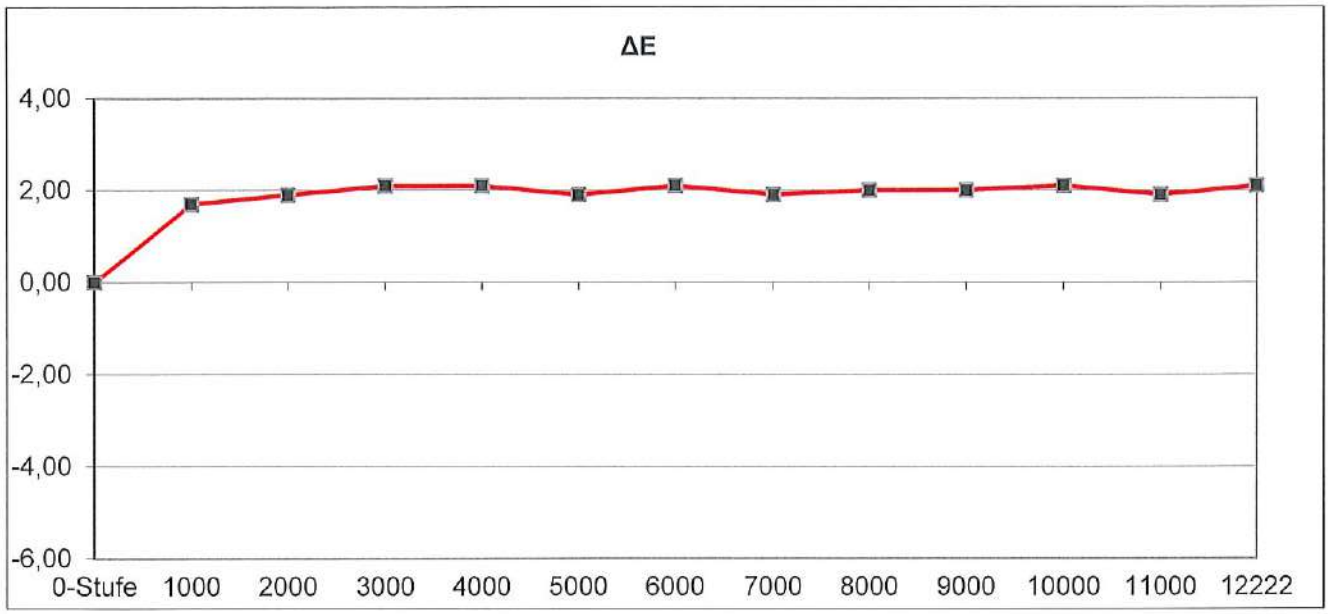
Results:

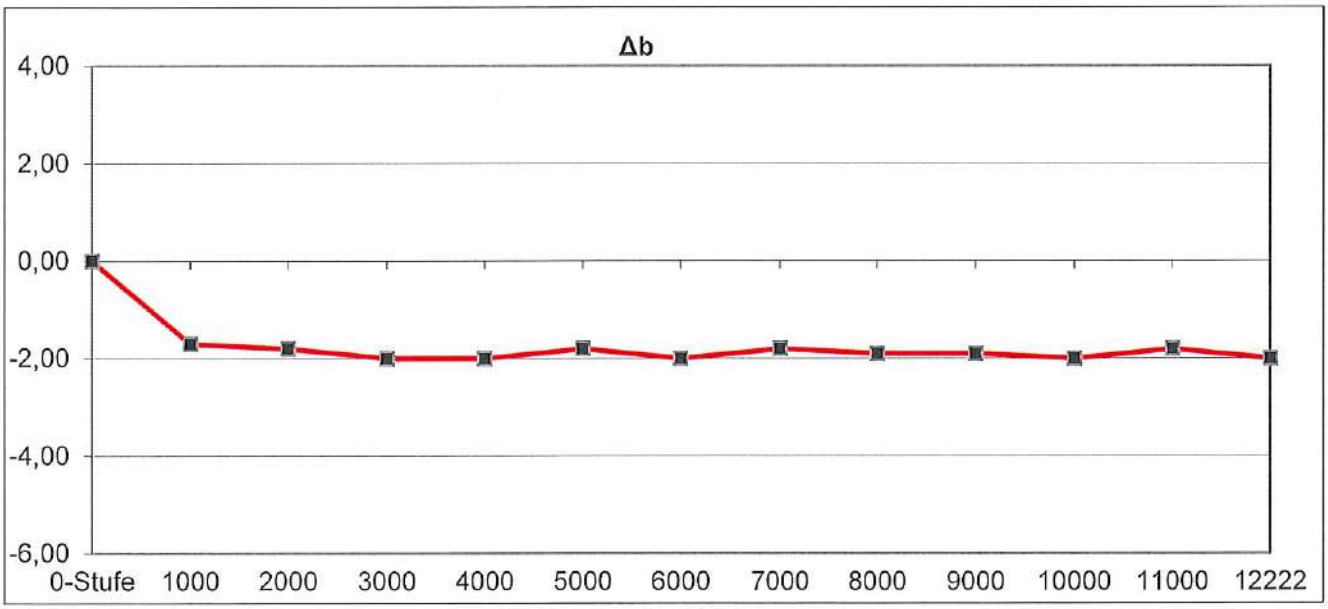
Colour change		
Exposure time	**ΔE**	**Δb**
2000 hours	1,9	-1,8
4000 hours	2,1	-2,0
6000 hours	2,1	-2,0
8000 hours	2,0	-1,9
10000 hours	2,1	-2,0
12222 hours	2,1	-2,0

Conclusion:

SKZ conducted resistance to weathering testing to the European Standard DIN EN 513:1999-10 profiles for the fabrication of windows and doors, climatic zone S (severe).
The profiles were exposed to a radiation dose of 24 GJ/m2.
The profile was found to meet and exceed the requirements defined for colour fastness.

ENCRAFT India Pvt. LTd - Xenotest Beta-LM





Colour change					
Exposure time	radiation dose	ΔL	Δa	Δb	ΔE
1000 hours	2 GJ/m²	0,3	0,2	-1,7	1,7
2000 hours	4 GJ/m²	0,5	0,2	-1,8	1,9
3000 hours	6 GJ/m²	0,6	0,2	-2	2,1
4000 hours	8 GJ/m²	0,6	0,2	-2	2,1
5000 hours	10 GJ/m²	0,6	0,1	-1,8	1,9
6000 hours	12 GJ/m²	0,7	0,2	-2	2,1
7000 hours	14 GJ/m²	0,7	0,2	-1,8	1,9
8000 hours	16 GJ/m²	0,7	0,1	-1,9	2
9000 hours	18 GJ/m²	0,7	0,1	-1,9	2
10000 hours	20 GJ/m²	0,7	0,1	-2	2,1
11000 hours	22 GJ/m²	0,7	0,1	-1,8	1,9
12222 hours	24 GJ/m²	0,7	0,2	-2	2,1

Colour measurement ΔE according DIN EN ISO 11664-4: 2012-06
Spectral photometer (D65/10)