

ABRASION RESISTANCE TEST GLASS PLUS

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Regarding : CROCKMETER TEST for Coated glass with Glass Plus

▪ **BACKGROUND**

The task was to test under Dexpert quality assurance conditions based on EN1096-2 Standard. Prior to these examinations the samples were cured at 245°C , 10 minutes (Case I) and exposed in sunlight during 2 hours, Atm. Temp. 30°C (Case II) separately. the following samples were examined ; Hand Spray coated Glass Plus glass samples on LIF glass.

▪ **DETAILED TEST PROCEDURE**

Crockmeter Test is performed by penetration of weighted felt tip on the surface of the coating. This felt tip turns itself clockwise during the fourth and backward movement of the tip, creating a felt trace on the surface.

The procedure of fourth and backward movement is performed **500** strokes.



Crockmeter Tester

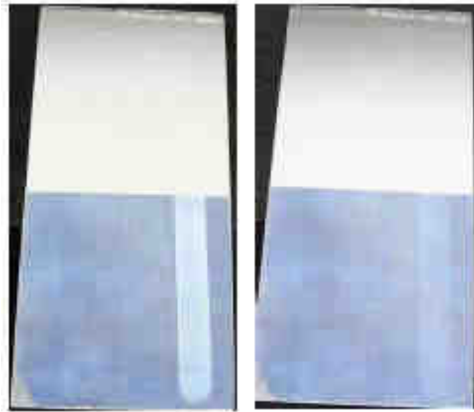


Weighted Felt tip
(400g)



Felt Trace

TEST RESULT



Before and after cleaning the felt trace after Crockmeter Test

For all samples(Case I, II) adhesion is very good.

WASHING TEST GLASS PLUS

Washing cycle	Measure of hydrophilie (Angle of contact in °)
0	6.25
10	7.28
20	13.5
30	10.47
40	8.16
50	7.14
60	5.34
70	7.15
80	7.64
90	11.35
100	9.46
110	6.27
120	8.23

The test this against was made in our laboratory, to measure the hydrophilic efficiency of the treatment after exposure. The presence of Superhydrophilie being the most effective means to test the product Glass Plus.

The tests this against, are tests of exposures in the washes of rains and in the UV. These two criteria are the ones found in real conditions.

A wash cycle, corresponds to an exposure during 48 hours in the rain (Realized in climatic chamber).

After 120 cycles of washes and 360 days of exposures in an UV cabin, we notice that the effect of Superhydrophilie is always present. Angle of contact < 10 °.