



RAPPORTO DI PROVA / TEST REPORT N. 138783

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Marghera

1/09/2016

rif. Your email dated June 8th, 2016

richiedente
proposer

MILKANA LTD
GENA DIMITROVA, STR. 6A - 05800 PLEVEN

campione
sample

Insulating Glass Units

prova eseguita dal / from 7/07/2016
test date al / to 16/08/2016

contrassegnato
reference

MILKANA PS

ricevuto il
received

24/06/2016 by carrier

CICLOBREVEING r.3 7/10/2013

AGEING TEST IN ACCORDANCE WITH STANDARD: EN 1279-6:2002

Glass in building - Insulating glass units - Part 6: Factory production control and periodic tests

Type of test: Ageing test and requirements for moisture penetration according to EN 1279-6:2002
Producer: Milkana Ltd
Code: MILKANA PS
Sampling: carrier out by the proposer

The constituents declared by proposer are listed below:

glass: float
inner sealant: butyl GD 115 (Kömmerling)
outer sealant: polysulphide (Fenzi)
spacer: cut corner aluminium
desiccant: NATERGY SIEVE (Zibo Natergy Chemical Industry Co., Ltd)
filling: air

production line: IG-LINE 2100 FUL

The initial dew point has been measured on the 10 samples of insulating glass with composition 4/12/4 units and dimension 35.0cm x 50.0cm according to EN 1279-2:2002 point 6.1; all values obtained were below -60°C.

The sample (set was divided into two groups which) were tested as follows:

	test	description
not aged samples	Ti	moisture content according to the 950°C dry method
aged samples	TF	moisture content according to the 950°C dry method
	I	calculation of "I"

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Measurement on samples not aged:

sample	desiccant dry (in g)	desiccant dry (in g/m)	Ti (%)
1	58	34	5.04
2	60	35	4.93
3	59	35	4.93
average:			4.97

Measurement on samples aged in climatic chamber:

sample	desiccant dry (in g)	desiccant dry (in g/m)	TF(%)	I (%)
4	59	35	5.46	3.3
5	58	34	5.39	2.8
6	58	34	5.43	3.1

Tc value (humidity absorption capacity in standard conditions as in EN 1279-2:2002) used for calculating I:

Tc = 20%.

Requirements for moisture penetration index B.4.1 (EN 1279-6:2002)

Index "I" must be equal to or less than the initial "I" corresponding to short cycle tests, increased by an absolute value of 2.5%.

If the initial 'I' value of the short cycle is unavailable, then 'I' must not exceed an absolute value of 8.5%.

The revision of EN 1279-6 in progress specifies:

- None value of index "I" has to be over the average value of initial type test, increased of 2,5% as absolute value.
- Index "I" $\leq$ 8,5% if the initial "I" value of short test is not measured.

This test was carried out at our Marghera laboratories.

THE HEAD OF THE LABORATORY
Ennio Mognato

THE LABORATORIES DIRECTOR
Dr. Nicola Favaro

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