



Stazione Sperimentale del Vetro

Venezia - Murano, Via Briati 10

Venezia - Marghera, Via delle Industrie - c/o VEGA Edificio Pegaso

RAPPORTO DI PROVA / TEST REPORT N. 83741

page. 1 of 3

Marghera

12/11/2007

rif. Your order dated 27.08.2007

richiedente
proposer

AL7 MEIPA S.P.A.

campione
sample

VIA POGGIO RENATICO 1/3 - 40016 SAN GIORGIO DI PIANO (BO)

Insulating glass units and inserts

prova eseguita dal / from 15/10/2007
test date al / to 22/10/2007

contrassegnato
reference

SUPER

ricevuto il
received

31/08/2007 bu carrier

FOGGING TEST AND VOLATILE TEST ACCORDING TO

UNI EN 1279-6:2004

Glass in building – Insulating Glass Units

Part 6: Factory Production Control and Periodic Tests

We received 4 insulating glazing units 35cm x 50cm in size and 4/12/4 in composition with sash framing. Their references are:

- SUPER: RAL powder coated finish (WHITE K010) 18 mm x 10 mm (code NS1810) and 26 mm x 10 mm (code NS2610) in size.

The manufacturer declares that for the other RAL colours the production process and control test are the same of BIANCO K010; so he declares that the production of the other RAL painted spacers is the same.

1) FOGGING TEST (Annex "C" of UNI EN 1279-6:2004)

The "Fogging test" was performed on 2 insulating glazing units specimens with the method and equipment called "British" described in Annex "C" of the above mentioned standard.

Test conditions were as the follows:

Hot spot temperature: 52°C;

Cold spot temperature: 23°C.

Test duration: 7 days

No sample showed internal condensation after the test.

Therefore, the specimens are considered to conform to the test criteria.



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2) VOLATILE TEST (Annex "G" of UNI EN 1279-6:2004)

On the basis of annex "G", the volatile test has been performed on some samples of the material of the same lot used for the assembly of the insulating glass units subjected to the fogging test. The materials were kept at 70°C for 7 days.

The weight loss resulting from the heat treatment determines the amount of volatile present in the sample.

The data relevant to the tested materials are given in the following tables:

spacer
code NS1810

| Sample | Initial weight (g) | Final weight (g) | ΔP (g) | Loss (%) |
|--------|-----------------------|---------------------|-------------------|-------------|
| 1 | 25,649 | 25,648 | 0,001 | 0,00 |
| 2 | 25,760 | 25,760 | 0,000 | 0,00 |
| 3 | 25,666 | 25,666 | 0,000 | 0,00 |

Average Value 0,00

spacer
code NS2610

| Sample | Initial weight (g) | Final weight (g) | ΔP (g) | Loss (%) |
|--------|-----------------------|---------------------|-------------------|-------------|
| 1 | 34,471 | 34,470 | 0,001 | 0,00 |
| 2 | 34,138 | 34,136 | 0,002 | 0,01 |
| 3 | 34,420 | 34,418 | 0,002 | 0,00 |

Average Value 0,00

end portion
code 1810T

| Sample | Initial weight (g) | Final weight (g) | ΔP (g) | Loss (%) |
|--------|-----------------------|---------------------|-------------------|-------------|
| 1 | 1,242 | 1,242 | 0,000 | 0,00 |
| 2 | 1,236 | 1,236 | 0,000 | 0,00 |
| 3 | 1,246 | 1,246 | 0,000 | 0,00 |

Average Value 0,00

Si attesta che il campione oggetto di analisi esibito dalla ditta richiedente presenta le caratteristiche sopra riportate. Il presente attestato si riferisce al campione esaminato e non può essere riprodotto in qualsiasi forma senza preliminare autorizzazione scritta. Eventuali reclami devono pervenire entro tre mesi dalla data di emissione. In carta semplice per gli usi consentiti dalla legge.



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VIA POGGIO RENATICO 1/3 - 40016 SAN GIORGIO DI PIANO (BO)

campione
sample

Insulating glass units and inserts

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SUPER

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End portion
cod. 2610T

| Sample | Initial weight (g) | Final weight (g) | ΔP (g) | Loss (%) |
|--------|-----------------------|---------------------|-------------------|-------------|
| 1 | 1,623 | 1,622 | 0,001 | 0,06 |
| 2 | 1,619 | 1,619 | 0,000 | 0,00 |
| 3 | 1,656 | 1,656 | 0,000 | 0,00 |

Average Value 0,02

In the absence of limit values in UNI EN 1279-6, as concerns significant values, this loss percentage can be considered as negligible and, therefore, the tested materials can be considered as practically free of volatile.

junctions
cod. 1810K

| Sample | Initial weight (g) | Final weight (g) | ΔP (g) | Loss (%) |
|--------|-----------------------|---------------------|-------------------|-------------|
| 1 | 2,726 | 2,674 | 0,052 | 1,91 |
| 2 | 2,731 | 2,678 | 0,053 | 1,94 |
| 3 | 2,732 | 2,679 | 0,053 | 1,94 |

Average Value 1,93

According to UNI EN 1279-6 prescriptions the supplied lots of "junctions code 1810K" shall not show weight loss beyond 2,90% (1.5 times the mean quantity determined using the same materials which were conform to the fogging test).

NOTE:

- in the absence of precise indications in UNI EN 1279-6 as concerns the quantity, size and shape of specimens, the different samples have been tested as received.

(Signature on the original)

True copy of the original, English translation

(signature on the original)

THE HEAD OF THE LABORATORY
Ennio Mognato

THE GENERAL DIRECTOR
Dr. Antonio Tucci

Si attesta che il campione oggetto di analisi esibito dalla ditta richiedente presenta le caratteristiche sopra riportate. Il presente attestato si riferisce al campione esaminato e non può essere riprodotto in qualsiasi forma senza preliminare autorizzazione scritta. Eventuali reclami devono pervenire entro tre mesi dalla data di emissione. In carta semplice per gli usi consentiti dalla legge.