



LAB N° 0073

RAPPORTO DI PROVA / TEST REPORT N. 124850

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Marghera

13/02/2015

rif. Your email of November 11th, 2014

richiedente  
proposer

NEDEX KIMYA SAN.VE.TIC.A.S. - CETIN CADDESI KIZ KALESI  
SOKAK No:1 ELIT PLAZA - 34775 UMRANIYE (ISTANBUL)

campione  
sample

sealant membranes

prova eseguita dal / from 18/12/2014  
test date al / to 5/02/2015

contrassegnato  
reference

PS 545 R

ricevuto il  
received

14/11/2014 by carrier

MVTRing r3 25/8/2011

## Moisture vapour transmission rate on a film according to prEN 1279-4: October 2014

Producer: Nedex  
Product type: polysulphide  
(chemical family)  
Denomination: PS 545 R  
Sampling: carried out by the proposer  
Test carried out at: Marghera laboratories

The moisture vapour permeability of the sealing membranes supplied by you was measured according to prEN 1279-4: October 2014 "Glass in Building – Insulating Glass Units – Part 4: Methods of test for the physical attributes of edge seal components and inserts" Annex D on 3 different specimens labelled by our laboratory as 1, 2, and 3. Each specimen underwent repeated measurements in different days.

The test specimens were prepared as follows: membranes were placed (as hermetic seal) on a glass dish containing about 30 grams of molecular sieves with an initial water content of 1,0%. Under these test conditions the passage of moisture vapour to the outside could occur only through the membrane itself.

The three dishes prepared with each sample membrane were weighed and placed in a climatic chamber with forced ventilation at 23°C and 90% relative humidity. Weighing was repeated at few-days intervals in order to determine the MVTR (Moisture Vapour Transmission Rate).

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The results obtained for three samples are reported in the following table:

time (in days)	Weight increase (in grams)		
	sample n° 1	sample n° 2	sample n° 3
13	0.436	0.451	0.498
20	0.740	0.761	0.828
28	1.068	1.090	1.173
35	1.360	1.374	1.482
42	1.625	1.637	1.768
49	1.907	1.922	2.068
Membrane thickness(in mm)	2.4	2.3	2.2
Dish mouth area (in m <sup>2</sup> )	0.00785	0.00785	0.00785
MVTR	5.2	5.2	5.5
MVTR calculated for 2 mm (*)	6.2	6.0	6.1

Average MVTR calculated for 2 mm (\*):  $6.1 \pm 0.1 \frac{\text{grams H}_2\text{O}}{\text{m}^2 \cdot 24 \text{ h} \cdot 2 \text{ mm}}$

(\*) An inverse relationship between thickness and permeability was assumed in the calculation.

Attachments: n° 3 graphs

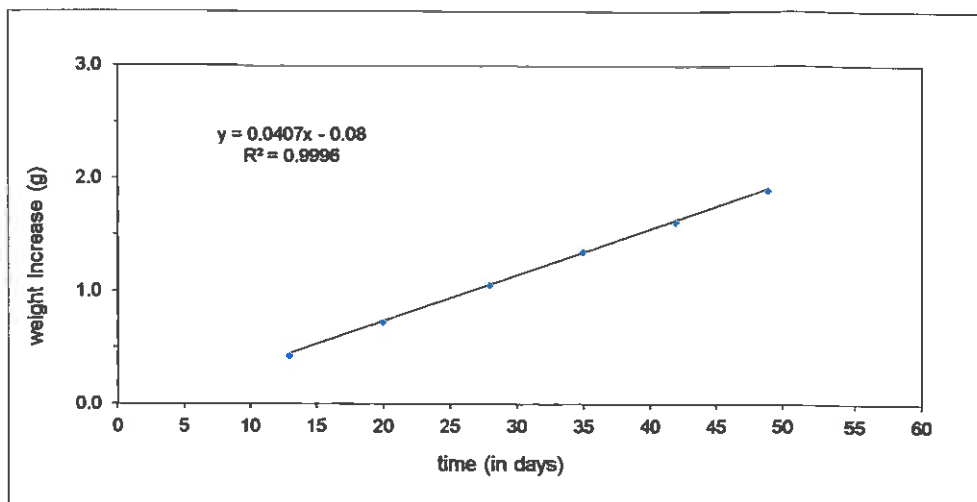
IL RESPONSABILE DEL LABORATORIO  
Ennio Mognato

THE LABORATORIES DIRECTOR  
Dr. Nicola Favaro

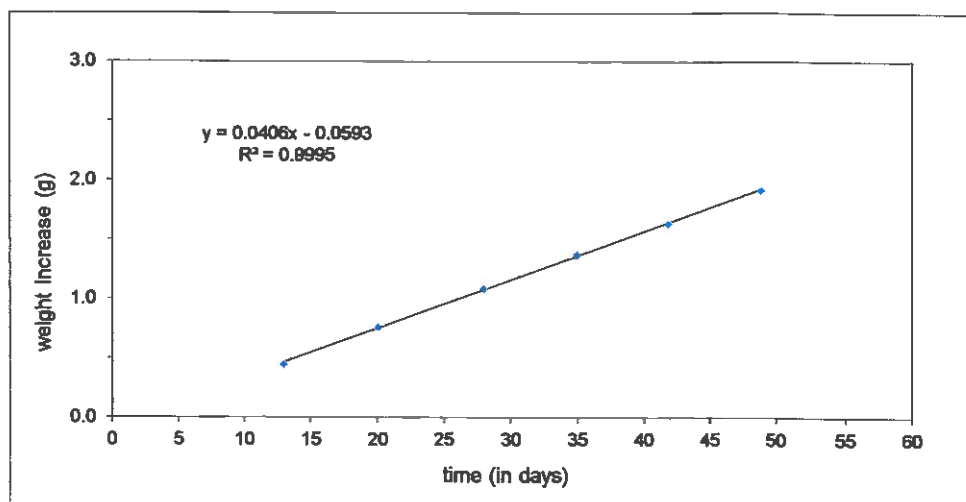
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Sample n° 1



Sample n° 2



Sample n° 3

