

RAPPORTO DI PROVA / TEST REPORT N. 125515

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Marghera 11/03/2015 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 17/02/2015
test date al / to 9/03/2015

contrassegnato
reference PS 545 R

ricevuto il
received 14/11/2014 by carrier

PermGas r 2 25/8/2011

Gas permeation test on film according to EN 1279-4: 2002

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

The gas permeability of sealing membranes sent to our laboratory has been measured in compliance with EN 1279-4:2002 "Methods of test for the physical attributes of edges seals" point 5.3 on 3 different specimens identified by our laboratory as 1, 2, 3. Each specimen underwent repeated measurements at different days.

As prescribed in EN 1279-4:2002 point 5.3.2, the test was performed adopting apparatus and procedures specified in EN 1279-3:2002 for the measurement of the gas leakage rate for insulating glass units. Apparatus consists of a cell in which a membrane is placed and argon gas flows through. Circular membranes have been used. Helium gas has been used as a carrier gas.

Average values obtained for each sample are reported in the following table with the corresponding standard deviation (1σ)

sample	1	2	3
thickness (mm)	2,0	2,0	2,0
surface (m ²)	0,01060	0,01060	0,01060
Average permeability for 3 tests (g · m ⁻² · h ⁻¹)	4,35 x 10 ⁻³	2,59 x 10 ⁻³	4,61 x 10 ⁻³
dev. std (1σ)	0,56 x 10 ⁻³	0,31 x 10 ⁻³	0,70 x 10 ⁻³

The permeability expressed as mean average, calculated on the thickness of 2 mm (*), is:

$$3,85 \pm 0,52 \times 10^{-3} \text{ g} \cdot \text{m}^{-2} \cdot \text{h}^{-1}$$

* An inverse relationship between thickness and permeability was assumed in the calculation

THE HEAD OF THE LABORATORY
Ennio Mognato

THE LABORATORIES' DIRECTOR
Dr. Nicola Favaro

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