

RAPPORTO DI PROVA / TEST REPORT N. 125515

page 1 of 1

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

Le prove riportate in questo rapporto contrassegnate dalla dicitura ** Non Accreditata da ACCREDIA ** non rientrano nell'Accreditamento ACCREDIA di questo Laboratorio. 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 parzialmente in carta semplice per gli usi consentiti dalla legge.

The tests indicated in this report which are cited as ** Non Accredited by ACCREDIA ** do not fall under ACCREDIA Accreditation. We declare that the analysed sample, provided by the customer, presents the above-mentioned characteristics. This Test Report is relevant exclusively for the specimen tested and it cannot be partially reproduced. Issued on unstamped paper for the uses foreseen by the law.