

**IKATES, s.r.o. – Laboratory for glass and building products testing**

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**Summary report No. N – 39-2S/2007 Date: 2008-03-18**

**Insulating glass units – Seal properties results according to EN 1279-4**

For details, see the test report N-39-2/2007

Company (Importer): Den Braven East Sp. z o.o.  
 ul. Bukowska 11a, Wysogotowo k/Poznania  
 62-081 Przeźmierowa, Poland

Plant (Producer) : Den Braven Sealants b.v.  
 Denariusstraat 11, Oosterhout 4903 RC, Nederland

Sealant specification: Tecseal Tecsil NO 007 4712

Batch No.: 7959027

Seal strength test:	At intersection with line A-B:		Type of failure observed				
	Average stress $\sigma_{av}$ (MPa)	Average extension $\epsilon_{av}$ (%)	C = cohesion		A = adhesion		
			1	2	3	4	5
Initial cure	0,22	28,5	C	C	C	C	C
After water immersion	0,25	25,3	C	C	C	C	C
After heating at 60°C	0,24	26,1	C	C	C	C	C
After UV radiation	0,22	28,0	C	C	C	C	C

**Moisture vapour transmission rate:**

Film thickness 1,9 mm  
 $\Delta P_{H_2O}$  90 % r.h. across the membrane (initial state)  
 temperature 22 °C  
 MVTR 21,7 grams  $H_2O \cdot m^{-2} \cdot (24h)^{-1} \cdot (2 mm)^{-1}$

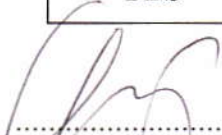
**Gas permeation rate:**

Film thickness 1,9 mm  
 Surface 0,001256  $m^2$  - Shape: circular  
 Paermeation rate: 11,0.10<sup>-3</sup>  $g \cdot m^{-2} \cdot h^{-1}$

**Conclusion of seal strength test:**

The sealant conforms to the test criteria

YES

  
 Jiří Stránský  
 manager of testing laboratory

