

## Test Report B 07 1073.3 E

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Customer: Kuraray Europe GmbH  
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Germany

date of order: 2007-07-03 order-No. / your reference: 4510013234 / IT2

subject: Evaluation of conformity for laminated safety glass (VSG)  
**INITIAL TYPE TEST according to EN 14449: 2005(D), paragraph 5.2.2**  
• **Radiation test**  
according to EN ISO 12543-4: 1998(D), paragraph 6

test object: Laminated safety glass "**TROSIFOL BG 0,38 white-translucent**"  
Specimens according to paragraph 1, page 2

sampling: Not official, by customer


receipt of samples: 2007-07-05

Darmstadt, 2007-11-01  
our reference: B/Hos

Pages : 3  
Tables : 2  
Enclosures : /

### The Management

i.A.  
(by order)



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## **1. Test material (according to manufacturer specification)**

Glass product: Laminated safety glass

Product name: TROSIFOL BG 0,38 white-translucent

Construction: 4 mm Floatglass / 0,38 mm PVB film white-translucent / 4 mm Floatglass

Edge working: none (cut edge)

Size in mm: 300 \* 300

manufacturer:

Kuraray Europe GmbH

Division TROSIFOL

Mülheimer Strasse 26

53840 Troisdorf

Germany

## **2. Test procedure and test results**

### **Radiation test according to EN ISO 12543-2, paragraph 4.3**

According to EN ISO 12543-2 the radiation test is carried out in compliance with the method given in paragraph 6 of EN ISO 12543-4 and evaluated according to paragraph 6.5 of EN ISO 12543-4. The purpose of this test is to determine whether exposure of laminated glass or laminated safety glass to radiation over an extended period of time produces any appreciable change in its properties. The change in its properties is judged by a change in luminous transmittance and the occurrences of bubbles, delamination and cloudiness.

Therefore 3 test specimens are exposed to a defined radiation for 2000 hours.

- Test conditions according to EN ISO 12543-4, paragraph 6.2.2
- Arrangement of test equipment according to EN ISO 12543-4, annex A

Evaluation of light transmittance before and after radiation:

Table 1

Specimen-number	Light transmittance according to EN 410 in %		Difference in %	
	before radiation	after radiation	result	requirement <sup>1)</sup>
1	58	58	0	± 10
2	58	58	0	
3	59	59	0	

<sup>1)</sup> Requirement according to EN ISO 12543-2, paragraph 4.3 for initial light transmittance > 20%

The visual inspection of the test specimens after radiation with unarmed eyes at a distance between 30 cm and 50 cm in front of a white diffuse background led to the following result:

Table 2

Kind of defects	Number of permissible defects	Number of defects at test specimen		
		1	2	3
Bubbles	0	0	0	0
Delamination	0	0	0	0
Cloudiness	0	0	0	0

### **3. Summary**

The tested specimens are fulfilling the requirements for the durability of laminated safety glass according to EN ISO 12543-2.