

SGS INSTITUT FRESENIUS GmbH · Postfach 1261 · 65220 Taunusstein

Order No.: 1674121

Client : 10024363

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Competence Center  
Consumer Testing Services

SGS INSTITUT FRESENIUS GmbH  
Im Maisel 14  
65232 Taunusstein

Taunusstein, June 17, 2010

Your Reference : Ordered by SGS Korea, June Lee  
Your Order Date : 17/MAY/2010  
Sample No : 100270827  
Test period : 20/MAY/2010 – 16/JUN/2010

Test Report No. 1674121-01  
Testing of silicon rubber

Dear Sirs

Referring to your request, we tested the samples that arrived at our Institute on May 20, 2010 according to the LFGB and the Regulation (EC) No 1935/2004 for selected items. The test includes peroxides, extractables and volatile compounds according to BfR-recommendation XV. Furthermore a test for color release according to recommendation IX should be carried out. Detailed information referring to the silicone was not available.

Sample no.	Sample designation
100270827	Silicone Rubber Material <u>AYAA10-17413</u> Product description: HR-1150 (Style/ Item no.: HR-1130, HR-1140, HR-1150, HR-1160, HR-1170, HR-1180)

Detailed results are given in the enclosure.

**Assessment:**

The sample meets the requirements of the LFGB and the Regulation (EC) No 1935/2004 including BfR-recommendations XV and IX in the tested items for long term contact.

Yours sincerely,  
SGS INSTITUT FRESENIUS GmbH

*Gabriele Götttsch*  
i. V. Gabriele Götttsch  
(Project Manager)

*Jasmin Digles*  
i. A. Jasmin Digles  
(Project Manager)

Enclosure: Test results (2 pages)

**ENCLOSURE**

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**Test Results:**

**A Tests according to BfR Recommendation XV**

**1. Peroxides**

The test was carried out according to Franck R.: Kunststoffe im Lebensmittelverkehr, part B II XV C.

Result	Requirement
Peroxides not detectable according to testing instruction	Peroxides not detectable according to testing instruction

**2. Extractables**

The silicon material was extracted with 3 % acetic acid or 10 % ethanol for 10 days at 40 °C. The extracts were dried at 105 °C. The extractables were determined gravimetrically as dry residue.

Test liquid	Extractables (%)	Requirement according to recommendation XV (%)
3 % acetic acid	< 0.1	max. 0.5
10 % ethanol	< 0.1	max. 0.5

**3. Volatiles in silicon**

The samples were conditioned, cut in pieces in a size of about 2 cm<sup>2</sup>, weighed exactly and stored in an oven. The amount of volatiles is determined gravimetrically.

	Results (%)	Requirement Recommendation XV (%)
2 h/ 70°C	< 0.1	max. 0.5
10 d/ 40°C	< 0.1	max. 0.5

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**B Test according to BfR Recommendation IX**

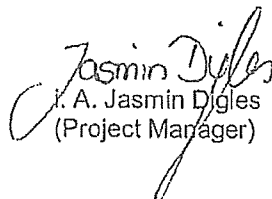
**1. Colour release**

The sample was colourless. Nevertheless - according to your request - we tested the sample according to the recommendation IX of the plastic commission of the BfR.

Colour	Test liquid			
	Water	Acetic acid 3 %	Ethanol 10%	Oil
colourless	no colour release	no colour release	no colour release	no colour release
requirement	no colour release			

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