


Collection of Methods for Sensory Testing of Food Contact Materials

<b>Name</b>	Disposable gloves
<b>Family</b>	Material for preparation and handling of food - use under hot and cold conditions
<b>Sample images</b>	
<b>Definition</b>	Gloves for food safety and skin protection during preparation/handling of food, single use
<b>Typical materials</b>	Plastics (e.g. PVC) Elastomers (e.g. latex, nitrile rubber, polystyrene-butadiene-rubber)
<b>Possible odours</b>	Rubber, bitter, adstringent
<b>Sample preparation</b>	None
<b>Preliminary test</b>	None
<b>Sensory testing conditions</b>	<ul style="list-style-type: none"> <li>- Turn glove (inside out) and fill (nearly) completely with water (preheated to 40 °C). Tie/knot/clamp it (Fig. 1) and incubate for 10 min at 40 °C*</li> <li>or:</li> <li>- Pull the glove over a beaker opening and fill with water (preheated to 40 °C) (see Fig. 2)** incubate covered with a film for 10 min at 40 °C</li> </ul> <p>Sensory testing of the water (if necessary after filtration when glove is powdered) (smelling and tasting)</p>
<b>Miscellaneous</b>	Conditions of contact (amount and type of simulant food tested, time and temperature of contact and, where appropriate, humidity) shall be indicated in the test report

)\*: the conditions of contact are taken from the recommendation of BfR XXI, 'Bedarfsgegenstände auf Basis von Natur- und Synthetikgummi'.

The JRC Guideline (2009) prescribes a contact for 2 h at 40 °C, which doesn't comply with the foreseeable use (Art.3 1935/2004) of the gloves with food. (Note: This reflects only the opinion of the members of AGSens). The surface-volume-ratio (approx. 400 mL/glove) is near the mark of a worst case. However, authorities of other EU-member states (e.g. France) probably use the conditions of contact of the JRC Guideline (2009).

)\*\* Use water in a beaker covered with a film, stored under the same conditions as a blank value.

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Fig. 1: Glove, filled and fastened with a knot



Fig. 2: Glove, filled and pulled over a beaker;  
covered with film