Product Sheet

**Food Grade RTV Silicone Moulding Rubbers**

Silicone rubber has been in use as a moulding material for several decades due to its natural ability to reproduce the finest detail and remain flexible without tearing. Building on their wide product range ACC Silicones have formulated two new food grade products for use with various foods including:

- Chocolate
- Confectionery
- Icing Sugar

These new products have been thoroughly tested by an independent laboratory and certified to meet FDA CFR 177.2600 and EC 1935/2004 and EU 10/2011 for use with fatty and aqueous foods depending upon the grade.

<table>
<thead>
<tr>
<th>Product</th>
<th>Mix Ratio</th>
<th>Colour</th>
<th>Mixed Viscosity</th>
<th>Hardness Shore A</th>
<th>Tear</th>
<th>Elongation</th>
<th>Pot Life</th>
<th>De-mould @25°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>MM700FG Putty</td>
<td>1:1</td>
<td>Blue</td>
<td>Putty</td>
<td>32-35°</td>
<td>10 kN/m</td>
<td>550%</td>
<td>15mins</td>
<td>1.5hrs</td>
</tr>
<tr>
<td>MM720FG</td>
<td>10:1</td>
<td>Beige</td>
<td>15,000</td>
<td>20°</td>
<td>23 kN/m</td>
<td>546%</td>
<td>60mins</td>
<td>4hrs</td>
</tr>
<tr>
<td>MM730FG</td>
<td>10:1</td>
<td>Beige</td>
<td>15,000</td>
<td>30°</td>
<td>27 kN/m</td>
<td>600%</td>
<td>60mins</td>
<td>4hrs</td>
</tr>
<tr>
<td>MM740FG</td>
<td>10:1</td>
<td>Beige</td>
<td>15,000</td>
<td>40°</td>
<td>11.5 kN/m</td>
<td>400%</td>
<td>60mins</td>
<td>4hrs</td>
</tr>
</tbody>
</table>

**Addition Cure Chemistry**

These food grade silicone moulding rubbers use Addition cure technology with the following features.

- Low shrinkage, below 0.1%
- High tensile and tear strength
- Tough rubber
- Good abrasion resistance
- Cure speed can be accelerated using heat
- Platinum catalyst can be poisoned (*see note below)

*The platinum catalyst used in all addition cures is susceptible to attack from certain chemical compounds which in turn will lead to inhibition of cure and results in a partially cured product. Bringing the uncured material into contact with the following chemical compounds should be avoided during the manufacturing process: nitrogen, sulphur, phosphorus, arsenic, organotin catalysts, PVC stabilizers, epoxy resin catalysts, sulphur vulcanised rubbers and condensation cure silicone rubbers.

**Catalyst**

As already explained, addition cure rubbers use a platinum catalyst and the A and B parts are manufactured together as a balanced kit. For this reason only use the A and B parts from the same kit and always weigh out and mix to the correct ratio. The catalyst can be contained in either the A or B part of the system, as this may vary from supplier to supplier, it is important to check first if using a new material with automated dispensing equipment. We strongly advise purging and cleaning equipment before changing to a new material to avoid cure taking place in the pump and pipe work.
Putty

MM700FG is an easy to use 1:1 hand mixed putty for moulding small to medium sized objects.

**Key Features**

- 1:1 Mix ratio
- Easy to Mix
- 1.5hrs Demould
- Fine detail pick up