

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 are compliant for use with fatty and aqueous foods.

Product	Mix Ratio	Colour	Mixed Viscosity	Hardness Shore A	Tear	Elongation	Pot Life	De-mould @25°C
MM730FG	10:1	Beige	15,000	30°	27 kN/m	600%	60mins	4hrs
MM740FG	10:1	Beige	15,000	40°	11.5 kN/m	400%	60mins	4hrs

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.