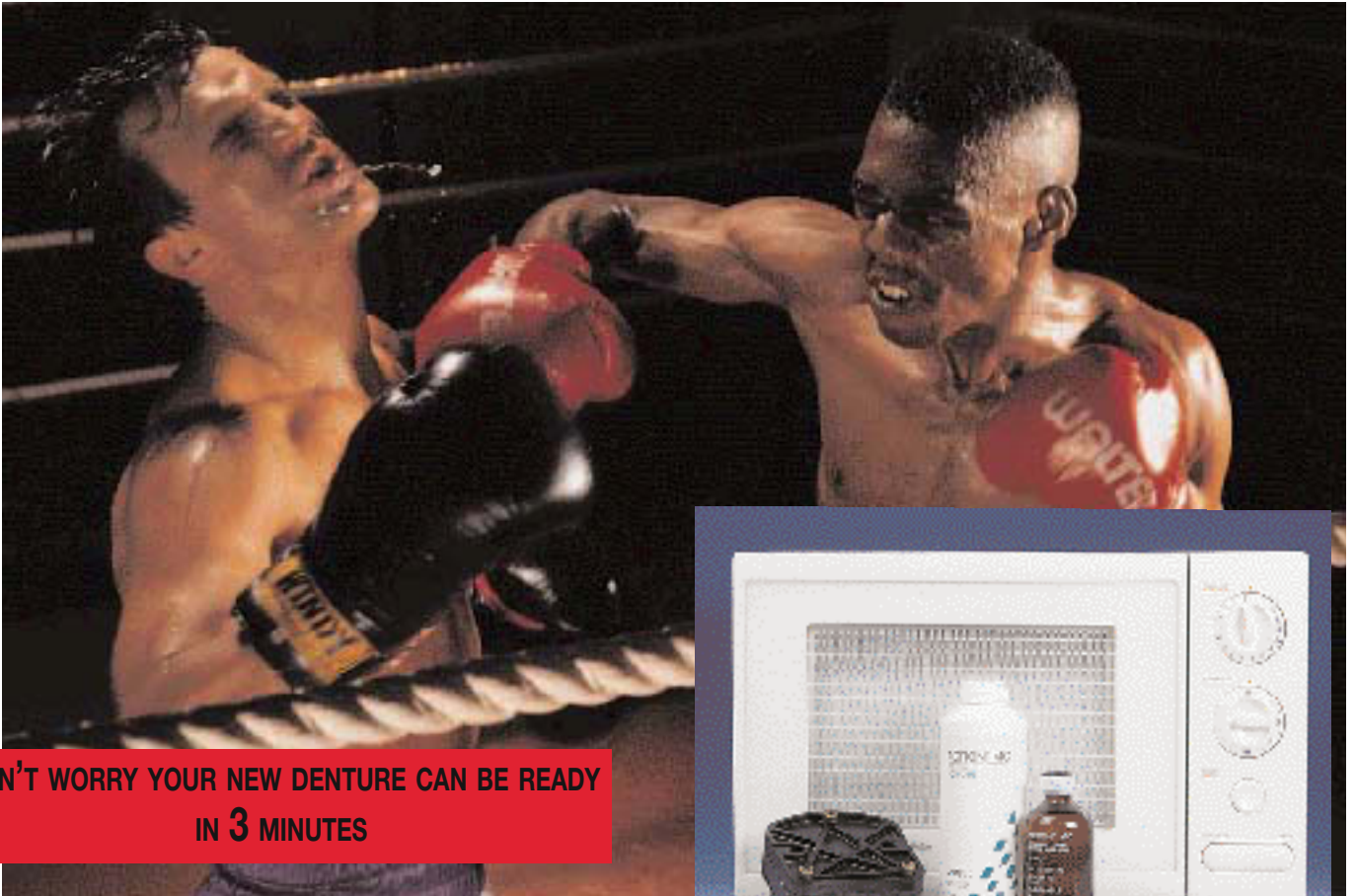


Acron MC

MICROWAVE-CURING DENTURE BASE ACRYLIC RESIN



**DON'T WORRY YOUR NEW DENTURE CAN BE READY
IN 3 MINUTES**

SPECIALLY DEVELOPED TO GUARANTEE SUCCESS

Specially developed for polymerisation in a microwave oven, Acron MC from GC is being welcomed by dental laboratories around the world.

Acron MC, the optimum, user-friendly system, promotes successful, high quality laboratory work. Advantages of the polymerisation method include:

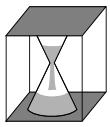
- fastest possible product polymerisation,
- superior physical properties,
- excellent dimensional stability due to uniform polymerisation.

GC has reformulated Acron MC in response to consumers' expectations, greatly enhancing its laboratory suitability by improving

- wider choice of shades
- cost-effectiveness, thanks to a new flask design.

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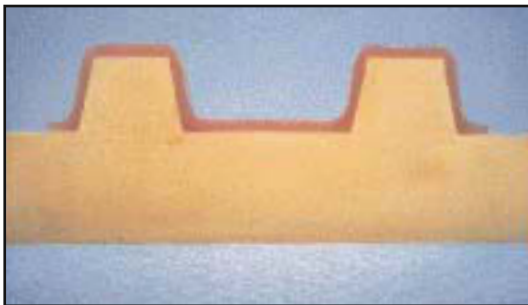
MICROWAVE POLYMERISATION - ADVANTAGES OF ACRON MC AT A GLANCE



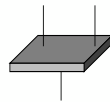
Polymerization in just 3 minutes. Far less time is required for dental processing, thanks to uniform and complete hardening in the microwave.

• Microwave polymerisation	3 min.
• Heat polymerisation	45 min.
• Water-bath polymerisation	2 hrs.
• Boiling	
• Low temperature	8-24 hrs.

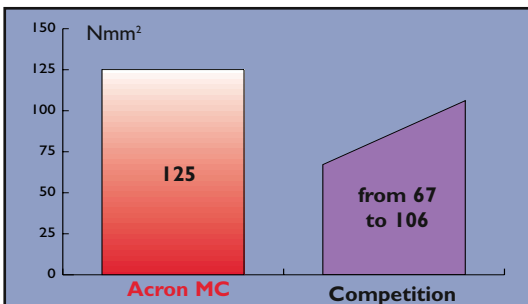
Curing time of different methods



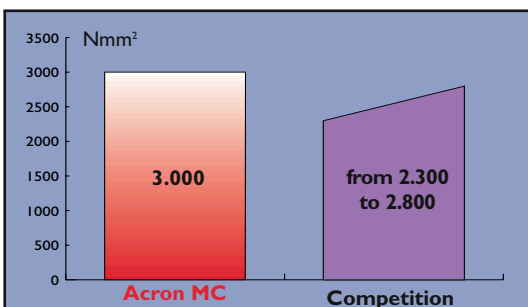
Accuracy of fit



The physical properties achieved by microwave polymerisation are just as important. Complete and uniform polymerisation with Acron MC, ensures dimensional stability which makes this technique far superior to conventional methods.

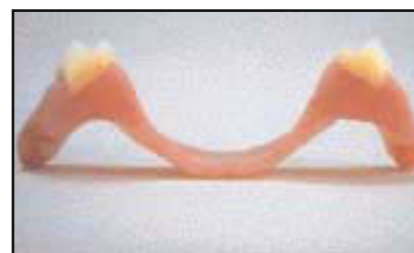


Flexural strength: Acron MC versus the competition



Module of elasticity: Acron MC versus the competition

- Perfect aesthetic results obtained with Acron MC are also impressive. Complete polymerisation in the microwave produces a smooth denture surface that effectively prevents build-up of plaque; it also greatly reduces the tendency to discolour as a result of water absorption.



Acron MC - 500 W/3 min

Cross-section after microwave polymerisation



Conventional heat curing resin - 500 W/3 min

- High fracture resistance is vital for the durability of any denture base material - as every practitioner will appreciate. The elastic modulus of Acron MC is equally important, being a measure of its resistance to deformation by external forces. These properties are vital to the quality of any denture base material - and Acron MC excels. Surface hardness is another key characteristic - once more Acron MC, with 28 Mpa (Vickers hardness), has nothing to fear from the competition.

REVISED PRODUCT RANGE COMPONENTS OF THE ACRON MC SYSTEM AT A GLANCE



Acron MC, bulk and refill packages

Major improvements, particularly in the new flask design, have made Acron MC more cost-effective.

Use of a fibre-glass reinforced resin together with an improved microwave-safe sealing system greatly extends the working-life.

The new design effectively prevents the flask being damaged when it is pressed together.

Very high cases can now be invested using the new flask design.

The Acron MC system was developed with emphasis on the user's needs.

The colour range has been extended to cater for all consumer's preferences.

The new shades:

- | | |
|--|----------------------|
| No. 5 | clear and |
| No. 8 LF+ | light fibered |
| perfectly complement the existing range: | |
| No. 3X | pink X |
| No. 8 | pink veined |
| No. 8L | light pink veined |



New flask with 10% more capacity and new microwave-safe bolts



Related products

A complementary range of products ensures efficient and economical working:

- GC ADVASTONE, a special flask plaster,
- GC ACRO SEP, separating material resin / plaster, and plaster / plaster
- GC ROCLEAN, plaster solvent
- GC ACRON MC, glass mixing jar

Acron MC

STEP-BY-STEP PROCEDURE



1. Isolate the flask fully, e.g. with vaseline. Place the wax denture in the flask and fill with GC Advastone.



2. When the plaster has set, remove wax with boiling water and isolate the surface with GC Acro Sep, taking care not to contaminate the teeth.



3. First add the recommended quantity of liquid to the mixing jar, then the powder. Standard mixing proportions: 30 g powder / 9 ml liquid. Do not mix. Acron MC can be manipulated after standing at room temperature for 20 minutes.



4. Place the mixed dough in the die (use a thin polythene film and close the flask together).



5. Press the flask together slowly, open up, and remove excess material. Repeat the process until no excess remains.



6. Insert the bolts and tighten them under pressure. Place in the (500 W) microwave oven for 3 minutes to polymerise.



7. Leave the flask to stand for about 30 minutes at room temperature, then cool in water. Remove the plaster of Paris from the flask.



8. Break the plaster of Paris and remove it from the denture. Plaster residues can be removed easily and safely with GC Roclean.



9. Trim and polish the denture, as usual.

Physical properties

	ACRON MC	PRODUCT A
• Flexural strength (kgf/cm ²)	1,090.00	995.00
• Transverse modulus x 10 ⁻⁴ (kgf/cm ²)	2.83	2.74
• Transverse deflection		
Load 1.5 - 3.5 kg	1,76	1,73
Load 1.5 - 5.0 kg	3,38	3,48
• Knoop Hardness Number (KHN)	18.50	17.90
• Water absorption (mg/cm ²)	0.67	0.71
• Solubility (mg/cm ²)	0.01	0.01
• Colour stability	good	good

Product range

PACK SIZES

• Powder	Refill	454 g
	Bulk	2270 g
• Liquid	Refill	237 ml
	Bulk	946 ml
• Shades:	No. 3 X	pink x
	New No. 5	clear
	No. 8	pink veined
	No. 8L	pink veined light
	New No. 8 LF+	light-fibered



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