Technical Data Sheet



ACRYCON AC Acrylic Powder for Dental Use

ACRYCON AC is a poly methyl methacrylate powder for dental usage made by Mitsubishi Chemical Corporation.

General procedures to make artificial teeth or teeth bridge with ACRYCON:

- 1. Color ACRYCON with pigments as needed.
- Mix ACRYCON with methyl methacrylate monomer. (Ideal ratio is about 40~30% of monomer to 60~70% of ACRYCON.)
- 3. Continually stir the mixture until the slurried powder becomes a paste.
- 4. Carefully fill the cavity of plaster, taking care of the volume. Too much volume over cavity or too little volume should be avoided.
- 5. Add pressure to cavity by hand press machine or similar device.
- 6. Submerge the cavity into hot water for around 3—5 hours for polymerization to occur.
- 7. Remove the moldings from the cavity.

Material Properties	
Product	AC
Application	Dental Use
[ŋ]	0.40 - 0.44
Molecular Weight Distribution (ref. data) Mn Mw Mw/Mn	480*10 ³ 1370*10 ³ 2.86
Particle Size Distribution 60 mesh on (%) 80 mesh on (%) 120 mesh on (%) 150 mesh on (%) 200 mesh on (%) 250 mesh on (%) 300 mesh on (%) 300 mesh pass (%)	0 2 24 28 36 4 4 2
Average Particle Size (mm)	0.109
Moisture Content (%) After drying for 3 hours at 80 °C	0.8 ~ 1.2
Paste preparation (Resin/Monomer Ratio - 2:1 1. Time to make paste after mixing 2. Preparation time after making paste	17 min. 10 min.