Polymer and Viscous Liquid Blending

change How You Think About Mixing and Processing

Resodyn Acoustic Mixers' second generation technology, *Lab*RAM II, provides up to I kg payload capacity and advanced control features. Virtually any combination of liquids, powders, pastes, and gases can be processed faster, better, more efficiently, and more productively using the *Lab*RAM II bench-top mixing systems and accessories. (www.resodynmixers.com)

Polymer-Liquid Blending with RAM

Many polymer based processing applications require additional ingredients for performance or coloration.

To illustrate RAM's ability to quickly and thoroughly mix ingredients of different characteristics, food coloring was blended with corn syrup (polymer surrogate).

The starting materials were 235 grams of corn syrup and 2.5 grams of food coloring.

Processing was performed at 20° C with the corn syrup exhibiting a viscosity of 2,100 cP. The materials were blended using the

*Lab*RAM™ II mixer.

After only 4 seconds of mixing, the two materials were thoroughly blended, with the liquid fully dispersed within the corn syrup. The use of **RAM**^{TM} technology is well suited for dispersion of liquids into polymers.

All RAM machines can also incorporate vacuum processing before, during and after mixing for applications requiring degassing. For videos of this and other mixes, please visit: www.resodynmixers.com/applications

Corn Syrup – 235 grams   Food Coloring – 2.5 grams
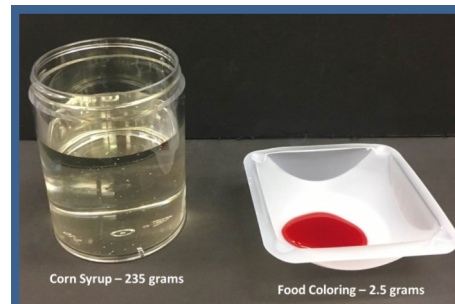
ResonantAcoustic® Mixer Value Proposition

- Mix 10-100 times faster than traditional mixers
- Improve product quality to new levels
- Reduce or eliminate clean-up costs
- Eliminate cross-contamination
- Scale easily from development to production
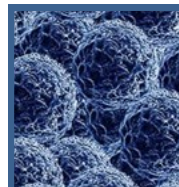- Scale up without increased processing time
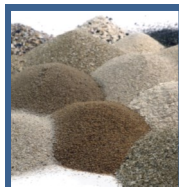
Solids/Powders	Liquids/Gases	Viscous/Slurry	Coating/Nano	Mill/Grind

RAM Product Family

change How You
Think About

LabRAM II

LabRAM II H

RAM 5

*Omni*RAM

RAM 5 H

RAM 55

ResonantAcoustic® Mixing performance is available across the **RAM** product line, enabling results and new product development not possible with traditional mixing methods. All **RAM** products use *low-*frequency acoustic mixing at up to 100 *g*'s of acceleration of intense, low-shear mixing for:

- 10x — 100x faster processing
- Highly repeatable processing results

- Exceptional ingredient distribution
- Hazardous material compatible options
- Direct scaling from laboratory to production without increases in processing time
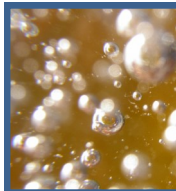
Capacities (Batch Basis)
*Lab*RAM™ II - 1.1 lbs. (1 kg)
*Omni*RAM - 11 lbs. (5 kg)
RAM 5 - 80 lbs. (36 kg)
RAM 55 - 920 lbs. (419 kg)

Witness RAM Technology First Hand, with Your Own Materials:
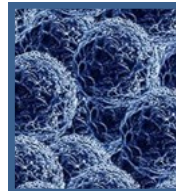Contact today to arrange a FREE RAM demonstration and mixing tests at your facility.

LabRAM II

Solids/Powders

Liquids/Gases

Viscous/Slurry

Coating/Nano

Mill/Grind

130 North Main Street, Suite 630

Butte, MT USA 59701

(406) 497-5333