# Blending Corn Syrup with Powdered Sugar and Sand

**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)

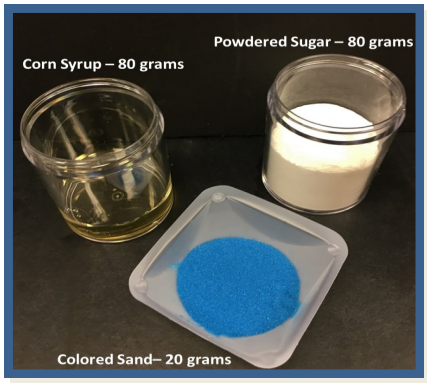
## Loaded Polymer Blending with RAM

To illustrate a heavily loaded polymer blend, two different material sizes of powdered sugar and sand were blended with corn syrup (polymer surrogate).
The top image to the right shows the starting materials while the image on the bottom shows the results after mixing.
The starting materials were 80 grams of corn syrup, 20 grams of colored sand and 80 grams of powdered sugar. The materials were mixed 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 30 seconds of mixing the materials were thoroughly blended with all solids loaded into the corn syrup. Final viscosity of the mixture was 350,000 cP.

The use of **RAM™** technology is perfectly suited for loading of solids into polymers and mixing highly loaded polymers once combined.

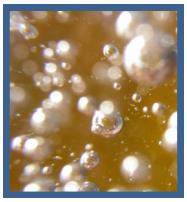
For videos of this and other material mixes, please visit: www.resodynmixers.com/applications



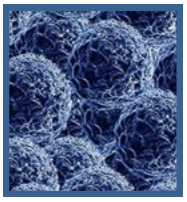
## ResonantAcoustic® Mixer Value Proposition

- 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

Resodyn ACOUSTIC MIXERS

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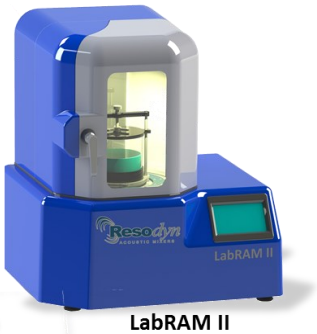
Resodyn ACOUSTIC MIXERS

*Innovative Mixing Solutions*

# RAM Product Family

change **How You Think About Mixing and Processing**




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

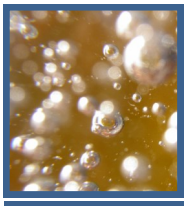
**Capacities (Batch Basis)**

***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:**

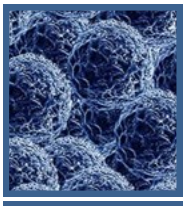
Contact today to arrange a FREE RAM demonstration and mixing tests at your facility.

Solids/Powders



Liquids/Gases

Viscous/Slurry



Coating/Nano

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