



**Keeping Service in the Mix**

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# **Chemical Cure Blends**

A large, conical pile of bright orange powder is the central focus of the image. The powder has a fine, granular texture. Scattered around the base of the pile are numerous smaller, individual particles of the same orange powder, creating a sense of dispersion or spillage. The background is plain white, which makes the orange color stand out prominently.

ISO 9001:2008 Certified

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**[www.polymericinc.com](http://www.polymericinc.com)**

# Chemical Blending



Polymeric is your personal compound and chemical supplier. We pride ourselves on experience, technology, and personal response.

Polymeric operates a state-of-the-art chemical blending facility in Kent, Ohio. We define a “cure blend” as a mixture of waxes, antioxidants, accelerators, and other rubber chemicals that would traditionally be weighed at a compounder’s station. Polymeric takes your custom requirements for a given batch of mixed rubber, blends the raw materials, and then accurately pre-weighs the chemicals into a low melt inclusion bag. Instead of weighing at your facility, the operator simply adds a Polymeric bag into the rubber batch.



## There are **MANY** advantages to using chemical cure blends

- Greatly improves batch-to-batch consistency due to precision weighing and no fly loss of powders
- Reduces raw material inventory and saves warehouse space by reducing multiple items to one
- Reduces housekeeping issues such as “chemical dusting” and chemicals in waste water
- Our state-of-the-art computer weigh out system eliminates operator error and provides 100% traceability
- Eliminates production downtime due to incorrect raw material weigh outs
- Reduces scrap – root cause analysis

*FDA and medical grade compliant chemical blends are available.*



## Pre-Blended Cure Systems

Pre-blended cure systems supply the user with a simplified method of improving the quality of compounding. With the introduction of computer controlled scales and printed weigh out verification, pre-weighed cure packages are incorporated into operations requiring strict quality compliance.

### Consistency

Chemists have long recognized the increased consistency achieved through the use of pre-blended, pre-weighed accelerator systems. The results achieved are tighter controls in modulus, tensile, durometer, and all areas of measured, unaged physicals. These improvements are very evident in SPC monitoring.

### Accuracy

The pinpoint accuracy achieved ( $\pm 0.05\%$ ) through the use of Polymerics' computer controlled weigh out equipment is much greater than a normal weigh out. The consistent accuracy allows the chemist to direct his attention to other areas when evaluating or improving a compound.



### Health and Environment

As we continue to learn more about the health hazards associated with chemicals, we become more aware of the need to find solutions for safe handling. Manufacturers are taking precautionary steps to ensure that their workplace is as clean and environmentally safe as it can be. Polymerics' pre-blended accelerator packages reduce employee exposure at the compounding area as well as at the mixer.

### Cost Considerations

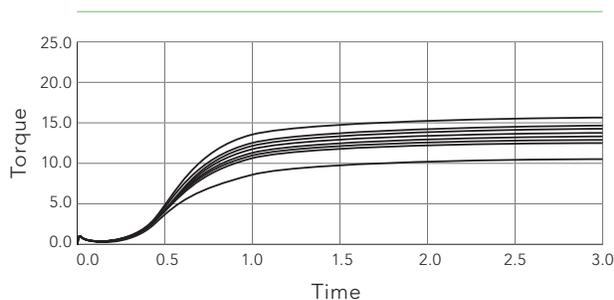
Polymeric's cure blends are a quality control tool. Quality is important to every product or mixing line and conventional weigh out procedures (with conventional consistency) do not suffice. Naturally, the cost per pound of quality cure blends used in high volume production runs will be less expensive than the cost of in-house compounding relying on the skill of the operator. The "savings" realized are the savings derived from the reduced inventory a manufacturer has to carry.

### Pre-Weigh or Bulk

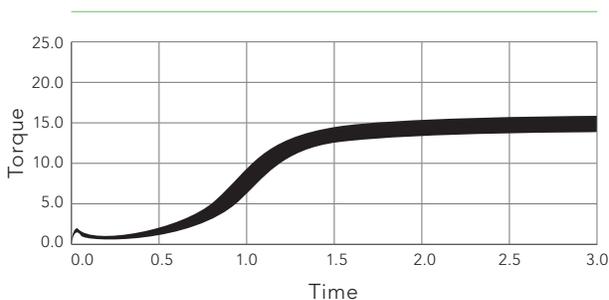
The Polymerics pre-weigh system has the most to offer. It completes the final steps of assuring that the exact amount designated is entered into the mix. The pre-weigh packet is also safer and cleaner and eliminates waste.

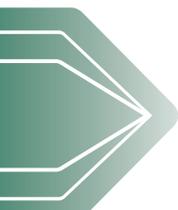
*Actual customer results. Before & after blends were used.*

#### Before



#### After





## Polymeric Cure Blends

- Using ISO certified suppliers
- Bar coded lot control
- Computer controlled weigh out system for raw materials ( $\pm 0.05\%$ )
- 50# to 800# batch mixing capabilities
- In-process testing on each batch
- Controlled batch mixing capabilities
- Each pre-weighed bag can be individually marked to customer specifications
- "AccuRate System" for pre-weigh bags ( $\pm 0.05\%$ )
- Honeycomb compartments available in Gaylord cartons
- Facility totally dedicated to chemical blending
- On-site inspections welcome
- Complete traceability and record keeping
- 42 years of experience mixing cure blends



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Bulk Packaging Available  
Freight F.O.B. from Kent, Ohio

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For additional information visit our website at:

**[www.polymericsync.com](http://www.polymericsync.com)**