

Custom Compounding and Rubber Mixing

Independent Testing for Today's Custom Mixing Challenges

ARDL has a full staff of rubber chemists ready to help with your formulation, processing and prototyping needs. We have experts from a wide array of rubber and plastic disciplines including: custom mixing, extrusion, molding, calendering, compounding (tires, belts, hoses, automotive and industrial), thermoplastics, latex, chemical manufacturing and sales.



We offer consulting to help with these and many other formulation and compounding needs:

- New product development for thermoset and thermoplastic applications. All elastomers including SBR, BR, NR, Butyls, CR, Nitriles, Acrylics, Fluoroelastomers, Urethanes and more.
- Product improvements
- Formulation reconstruction
- Cost reduction measures
- Prototyping
- Process problem solving including molding, extrusion, mixing, and calendering operations
- Patent searches
- Expert witness, legal testimony

ARDL has a full scale lab mixing facility with BR mixers, mills and calendering capabilities. We have multiple presses, extruders and a variety of molds and extruder dies for different applications.

ARDL customers utilize our wide range of development, testing and analysis capabilities to improve their compound formulations, product performance and/or competitive advantage.

- Compound Development
- Formula Optimization
- Failure Analysis
- Custom Testing
- Raw Ingredient Qualification
- Crosslink Density
- Contamination Identification
- FTIR
- Dispersion Analysis
- Physical Testing
- State of Cure
- Polymer Identification
- Competitor Analysis
- And Many More



Rubber. Plastic. Latex.

AKRON RUBBER DEVELOPMENT LABORATORY, INC.

Why Review Your Compound?

Did you know you can probably save money and improve the performance of the rubber products you produce?

If you have rubber compounders in-house, we strongly encourage you to review your rubber formulations at least annually. Taking out even a couple of cents per pound of rubber really adds up over the span of a year. If you don't have in-house compounders, the long-term savings potential far outweighs the small investment to have ARDL review your compounds.



For a nominal fee, ARDL will confidentially review your compound. If there doesn't appear to be any room for improvement and you are happy with its performance, that's all you'll pay and you'll have sound peace of mind. If we see opportunities for improvement, we will provide a quotation for:

- Testing your current compound to your required specifications
- Adjusting the compound to make it less expensive or perform better or both
- Testing the improved compound to ensure it meets or exceeds your requirements

We know we can improve the cost and/or performance of many rubber compounds. We see it every day. In this market of regular material discontinuations, substitutions, daily commodity price fluctuations and unproved ingredients coming from all over the world, it really pays to review your rubber compounds for efficiency and effectiveness. ARDL can help. Let us put our expertise to work for you.

Contact our experts today at answers@ardl.com to discuss your formulation or compounding needs further.



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