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SILICONE

A Division of Alliance Rubber Company

## Silicone Case Study Two: *Flame Retardant Compounds*

We were contacted on behalf of a manufacturing company that produces connectors, hand tools, testers, and meters for the electrical and telecommunications industries.

The client required that the band contain a formulation that met specific UL (or Underwriters Laboratories' plastics flammability standard) requirements and supplied us with the durometer, shore, tensile strength and elongation information for the finished product to meet their needs.

Our team developed a compound material that would meet the client's requirements.

In-house tests for UL 94V-0 flammability compliance were performed on sample bands produced from the developed compound. It was determined that the bands were not affected in any way by a 2000° F direct flame. In addition, a blow-torch that could reach temperatures up to 6000° F was applied to the testing process. The compound bands would burn at these high temperatures but would self-extinguish when the torch was removed.

Once extruded, our team provided a sample to the client so they could run their own compliance testing.



To learn more about other industries that have improved their work flow by using silicone extruded products offered by ARCO®, please visit <http://www.arcosilicone.com>. Or contact our experts directly by e-mailing [sales@arcosilicone.com](mailto:sales@arcosilicone.com)