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Tenneco's Clevite Elastomers Leading the Way on Elastomer Durability

Automotive supplier Tenneco is using Endurica solutions to show its customers it means business when it comes to elastomers and durability. The company's [Clevite Elastomers](#) brand currently licenses Endurica's software and is investing in its material physical testing capabilities at its engineering center in Milan, Ohio. The software, together with the new testing capabilities will allow Tenneco to generate the test data required to produce accurate fatigue predictions for its elastomers products.

"Our business absolutely depends on having fast and accurate ways to understand and manage durability issues," says Steve Pohlman, Tenneco's vice president and general manager, global elastomers. "We have invested strongly in fatigue testing and simulation capabilities that support this imperative.

"Part of that investment includes Endurica's fatigue simulation software fe-safe/Rubber, which uses Critical Plane Analysis to give accurate predictions of performance under complex load cases. It also includes testing methods and instrumentation that give Tenneco much greater capacity to characterize rubber fatigue behavior in simulation-compatible ways."

Tenneco engineers presented details of their durability validation program at last year's fe-safe/Rubber user group meeting, and will be presenting additional results at conferences this year in Grand Rapids, Michigan (SAE) and Munich, Germany (ECCMR).

Endurica LLC provides pre-prototype solutions for developers seeking durability in elastomer applications. Endurica is focused on durability and elastomers, and has developed the world's first numerical fatigue life solver for elastomers. Our solver is used to predict fatigue life based on the results of Finite Element Analysis. Our solutions include software, characterization services, testing instruments, and training for engineers and analysts. The company was founded in 2008. (www.endurica.com)

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