

OZONE ATTACK

TEST AND SIMULATE OZONE AND FATIGUE EFFECTS IN RUBBER

Ozone is a trace gas that strongly reacts with some rubbers to produce surface cracking following exposure. Checkerboard cracking on an old tire sidewall or rubber hose are both common examples of ozone-induced cracks. Ozone cracking can limit useful product life, even when mechanical cycles operate below the mechanical fatigue threshold.

Test and simulate using Endurica's Fagigue Property Mapping Ozone Effect (FPM-OZ) and the Endurica solvers (Endurica CL™ and Endurica DT™) to ensure adequate ozone (O_3) resistance.

BENEFITS

- View as many of your tire sidewall compound options and designs as you wish with a year, a decade, or even two decades of ozone effect to see the impact of time and exposure
- Understand the impact of both ozone exposure and rubber fatigue in your product.
- Accurate and timely results via uniquely reliable and productive test strategies.
- Reduced risk and cost of development iterations when you take your material's ozone effect and fatigue capabilities into account.
- Leverage your design's full potential by choosing the best option for environmental effects.

THE ENDURICA DIFFERENCE

Learn more at:

www.endurica.com/elastomer-testing-characterization/

Call today to discuss your testing project: **+1.419.957.0543**

Endurica

Get Durability Right®

C-SUITE INSIGHTS

AGILE MATERIALS DEVELOPMENT

Endurica's ozone attack capability lets you quickly see the effects of ozone and fatigue in your product with your material under actual service conditions. Standard ASTM/ISO tests are not enough.

SUSTAINABILITY

Balance sustainable materials development with long-term performance. Endurica's Ozone Attack capabilities enable you to quickly and confidently sort your options.

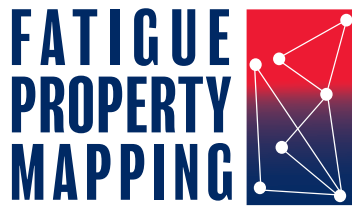
SEE THE EFFECTS

Our characterization services provide the parameters you need for visualizing typical and atypical ozone exposure. This workflow enables you to rank your candidate materials based on their long-term performance.

INFORMED DECISIONS / REDUCED RISK

Use our code to quickly eliminate non-viable solutions and optimize the most promising choices.

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KNOW YOUR MATERIAL

TEST

Find your material's parameters with Endurica's Ozone Effect module (FPM-OZ).



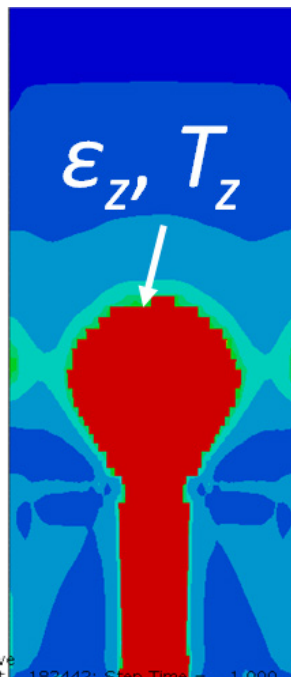
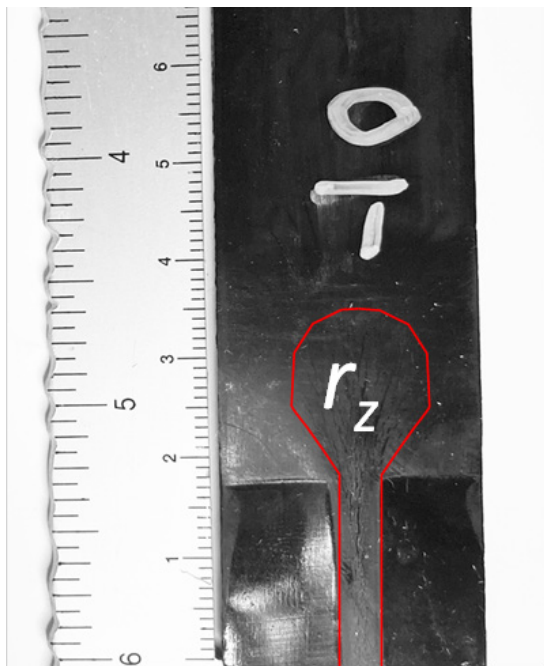
Fatigue Analysis Software



Incremental Fatigue Analysis

SIMULATE

Predict ozone resistance in your application with Endurica CL™ and Endurica DT™



182442: Step Time = 1.000
Var: Fatigue Life-1

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