

CREEP CRACK GROWTH MODULE



Recommended for cases involving long periods under static load
 Lab ambient temperature (23°C)

The creep crack growth rate module produces information useful for cases involving long-term static loads under which time-dependent crack growth (rather than cycle-dependent crack growth) may occur.

Experiment Overview

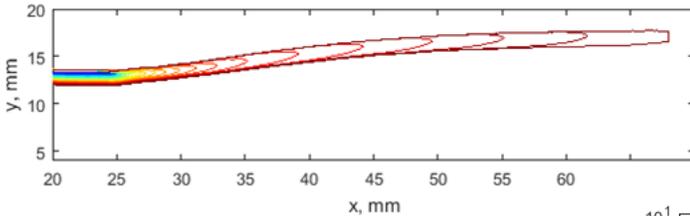
- raw data from quasistatic creep crack growth procedure
- number of slabs needed for test: 1

Use with

- Powerlaw creep crack growth model
- Table lookup creep crack growth rate law

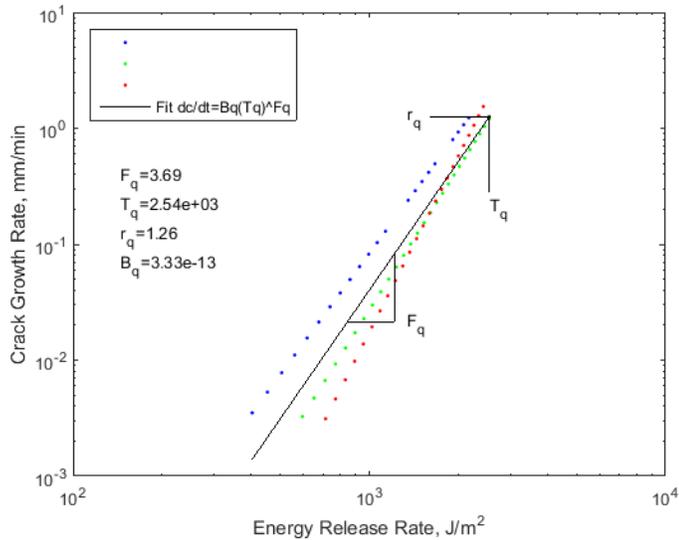
Analysis and Reporting / Deliverables

- creep crack growth rate curve and its parameters (T_q , r_q , and F_q)



Typical crack tip images collected during fatigue testing. Each contour represents the crack tip shape at a given number of cycles. Colors indicate time, with blue at the beginning of the test, and deep red at the end.

Fatigue crack growth rate observations and model fit parameters.



FPM-CR Elastomer Fatigue Property Map – Creep Crack Growth Module \$2,140

Additional Options

FPM-CR-HOT Elastomer Fatigue Property Map – Creep Crack Growth Module \$770
 Indicate temperature with range of >23°C to 150°C

FPM-CR-COLD Elastomer Fatigue Property Map – Creep Crack Growth Module \$1,390
 Indicate temperature with range of -40°C to <23°C