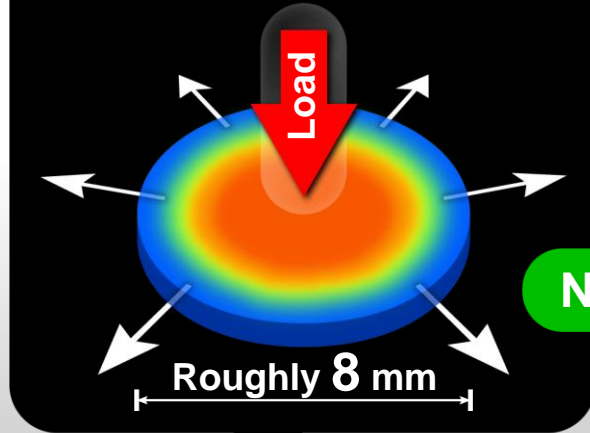


This study

Small Punch Test Bi-axial Evaluation



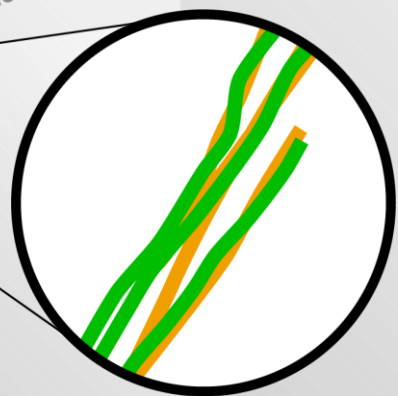
Fast & accurate prediction by **short term** & **small size** evaluating method for long term reliability of materials.

Numerical $\dot{\epsilon}_{cr} = C_1 \sigma_{cr}^{C_2} \epsilon_{cr}^{C_3} \exp(-C_4/T)$

Smaller than 1/10

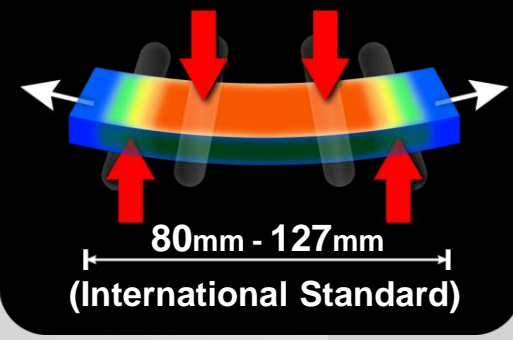
Creep Deformation

Roughly 10 h



Experimental

4-point-bending Test Uniaxial Evaluation



Time

Roughly 100,000 h

Primary creep

Secondary creep

Tertiary creep

Fracture