

# Notched Bending

## Test Set Up

Bluehill Test Method: “Bending\_Notch”. Follow on-screen directions.

Specimen:  
No hardness.  
Dimensions:

- Full height
- Notch depth
- Width
- Notch *radius*:
  - Sharp – microscope measurement
  - Round – digital calipers (internal)



**Place in fixture: Notch DOWN for metals.**

Adjust Crosshead (JOG).

- Do NOT contact.
- Verify LOAD = 0.00  
GL Reset.



Run past specimen failure and continue to run until the load *returns* to around (-)0.3 kN.

Final Width at bottom = Width at Notch tip.

Order of tests:

- 1045 Steel (hot rolled)
  - Sharp
  - Round
- Aluminum (2024, 6061, or 7075)
  - Sharp
  - Round
- PMMA
  - Notch UP
  - Notch DOWN