

Need to test tensile and compression for each material

#### Rubber

Elastomeric, composed of polymer chains

Need to model properties based on Neo-hookean model

Look to incorporate this into MATLAB model

Look into research papers on Neo-hookean

Indentation models

Requires larger block of material, possibly not as feasible

#### Foam

Cellular solids 1: Structures, properties and Engineering Applications

Mechanical properties of foam lecture, notes posted on drive

Small strains can be classified as linear, larger strains have more complex response

Two types:

Open cell model

Closed Cell Model

Look into rate dependent effects for both (later