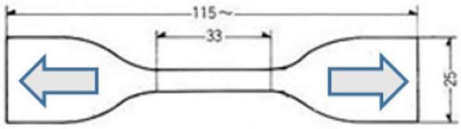
Hanna Rubber Company

Tensile Strength, Elongation, and Modulus

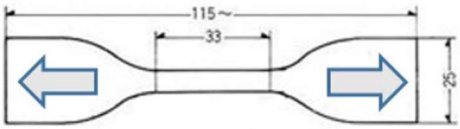
Tensile Strength (PSI)

Tensile strength is the amount of force in pounds per square inch (psi) required to stretch a test sample to the point of failure. This test is performed placing a dumbbell shaped part into the grips of a tensiometer. The tensiometer pulls the grips apart steadily until the dumbbell breaks. The force at rupture is known as ultimate tensile strength or tensile.



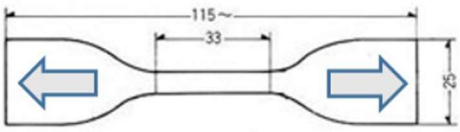
Elongation (%)

Elongation is measured by stretching the sample same as above and measuring the change in length from original. Elongation is expressed as a percentage of the original length. Ultimate elongation is the percentage change in length from original to rupture.



Modulus

Modulus is the force at a specific elongation, such as 100%, 200% or 300% elongation. Stated in PSI, modulus is used for comparison purposes at various %, example 100% elongation is referred to as “M100”.



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