Reference Section

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Breaking force

Tenacity / stress

Count / Lea Strength Product

Elongation

% Extension / strain

Initial modulas

Hookean Region or Elastic Region

Yield Point

Primary creep

Secondary creep

Relaxation

= The maximum force a material can stand before it breaks.

Breaking force in N or cN.

= Linear density in tex, dtex or denier

= Breaking force of a hank of yarn [lbs] X Linear Density in count

= The length by which a material will extend beyond its original length.

= The extended length – original length x 100 original length x 1

= Measures resistance to extension under low forces.

= In this region, stress is proportional to strain therefore the material recovers all extension, it is elastic.

= This is the end of the elastic region.

= Recovery after extension with time.

= Non-recoverable extension [permanent deformation].

= Continued extension without the further application of force.