



Excerpts from ASTM D2632-01 (2008) Standard Test Method for Rubber Property-Resilience by Vertical Rebound

Resilience is a function of both dynamic modulus and internal friction of a rubber. It is very sensitive to temperature changes and to depth penetration of the plunger. Consequently, resilience values from one type of rebound instrument may not, in general, be predicted from results on another type of rebound instrument.

This test method is used for development and comparison of materials. It may not directly relate to end-use performance.

1. Scope

1.1 This test method covers the determination of impact resilience of solid rubber from measurement of the vertical rebound of a dropped mass.

1.2 This test method is not applicable to the testing of cellular rubbers or coated fabrics.

1.3 A standard test method for impact resilience and penetration of rubber by a rebound pendulum is described in Test Method D 1054.

1.4 The values stated in SI units are to be regarded as the standard. The values given in parenthesis are for information only.

1.5 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.