

Shore A and Shore D hardness testing of rubber

DIN
53505

ICS 83.060

Prüfung von Kautschuk und Elastomeren – Härteprüfung nach
Shore A und Shore DThis standard, together
with DIN EN ISO 868,
January 1998 edition,
supersedes June 1987
edition.*In keeping with current practice in standards published by the International Organization for Standardization (ISO), a comma has been used throughout as the decimal marker.***Foreword**

This standard has been prepared by Technical Committee Prüfung der physikalischen Eigenschaften von Kautschuk und Elastomeren of the Normenausschuss Materialprüfung (Materials Testing Standards Committee). It conforms largely with DIN EN ISO 868 and ISO 7619 : 1997.

The precision data given here were obtained in a 1985 interlaboratory test in which 14 laboratories participated. Test pieces of three qualities of rubber were prepared in a central laboratory, and then each laboratory tested five test pieces of each rubber quality over four successive days. Each test comprised three measurements, the median of which was given to the nearest Shore unit. The results are shown in table 3.

It was shown that a shorter reading interval of one second and the use of a hand-held instrument had no influence on the precision data. However, the level of the test (cf. table 3) was influenced by the measurement procedure itself, particularly in the lower hardness range (around 40 Shore A). Here, an increase by 0,8 units was observed for a reading time of one second, and an increase by 1,2 units occurred where a hand-held instrument was used. Repeatability and reproducibility can therefore only be ensured if the test parameters specified in this standard (a reading interval of three seconds and the use of a stand) are maintained.

Amendments

This standard differs from the June 1987 edition in that it no longer deals with plastics, as these are covered in DIN EN ISO 868, and references have been updated.

Previous editions

DIN 53503-2: 1943-03; DIN 53503: 1948-08; DIN 53505: 1953-09, 1957-06, 1960-05, 1967-04, 1973-03, 1973-06, 1987-06.

1 Scope

This standard specifies the hardness testing of rubber test pieces and products. The hardness of a rubber is determined by its viscoelastic properties, particularly the elastic modulus as determined in DIN 53504. Type A durometers are suitable for testing in the hardness range from 10 to 90 Shore A, while type D durometers are to be used in the high hardness range.

The ball indentation method can be used for the middle hardness range, either using a 2,5 mm diameter ball as specified in DIN 53519-1 or – for softer test pieces – with a 5 mm diameter ball as specified in DIN EN ISO 2039-1. Test pieces which are too small to be tested as in DIN 53519-1 may be tested in accordance with DIN 53519-2.

An overview of the ranges of application for the different hardness testing methods is given in Appendix A.

Continued on pages 2 to 5.

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original should be consulted as the authoritative text.

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