

KES

Testing Method of
Stress for Vulcanized Rubber

KES T – L311

(EST.) 1989 – 12 – 30

Contents

1. Scope of Application
 2. Test Sample
 3. Test Apparatus
 4. Test Method
 5. Calculation
- Additional Rules



1. Scope of Application

This standard shall prescribe about the testing method of stress for vulcanized rubber.

2. Test Sample

Test sample is defined as thickness of 12.70 ± 0.13 mm, right circumference with diameter of 29.0 ± 0.2 mm. Selection manufacture of test sample is defined as KES B-L006 11.2 (1) ~ (3). On the case of using sample sticking to the metal surfaces, manufacture method is defined as KES B-L006 9.2.1 (2)

3. Test Apparatus

Test apparatus is composed of top-bottom compression plate and dial gauge for measuring the deformation of test sample. The top-bottom compression plate should be flattened to have flatness of 0.05 mm.

3.1 Compression tester: Compression tester should be able to have active compression and direct the compression. Compression tester should also be able to measure the deformation of test sample with speed of 10 mm per 1 minute.

Compression tester should be inspected at least once a year and should not have more than ± 1.5 % of error for the range of measuring load.

3.2 Dial Gauge : Dial gauge measuring deformation is defined under the regulation of JIS B 7503 (0.01 mm mark dial gauge)

3.3 Meteorological meter : Use the meteorological meter defined on KES B-L006 3.2.5.

When the test sample is selected and manufactured from the products, Bernier caliper or micrometer is acceptable.

4. Test Method

4.1 Test conditions : The test is performed under the regulation 3.1, 3.2 of KES V-L006.

When the test is performed on the designated test temperature, perform the test after