

KES

**Test Standard for Plasticity
and Recovery of Rubber**

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1. Scope of Application

This standard shall include measurements of plasticity and recovery of non-synthetic material, synthetic material and reclaimed synthetic material of rubber, which is unvulcanised by a presto meter.

2. Test Method

2.1 Plasticity

For the measurement of the plasticity for a specific volume and a height of the sample, preheat to the indicated test temperature for 15 minutes and apply 5kg(45N) of an indicated compression force for an indicated period.

2.2 Recovery

This standard includes two methods for measurements of recovery.

- (1) As a first method, cool down the sample in the room temperature for 1 minute, measure the recovery immediately and remove the presto meter.

Measure the thickness after this finishes, and measure the recovery by a difference of the thickness and a plastic value.

- (2) As a second method, after compressing the sample to 5mm for 30 minutes, recover for 5 minutes in the test temperature.

Measure the recovery as like in (1).

3. Purpose and Use

The plastic number and the recovery are related to the flow characteristics and the elasticity, and may be used to predict process characteristics such as characteristics of safety protrusion of the molding.

4. Definition of Terminology

- (1) Plastic number