For example, Patent Literature 1 discloses an uncrosslinked rubber composition including a hydrogen-containing fluororubber that is a crosslinkable fluoroelastomer and a liquid hydrogen site protecting agent.

Citation List

Patent Literature

[0004]

Patent Literature 1: JP 2019-52226 A

Summary

[0004a]

In a first aspect of the present disclosure, there is provided an elastomer composition comprising:

a crosslinkable fluoroelastomer (A) that is a compound having no hydrosilyl group; and

a composition (B) that comprises a compound having a perfluoro skeleton having an ethylenically unsaturated bond that is a compound other than the elastomer (A), the composition (B) having a minimum torque at 60°C of 0.5 kgf·cm or more as measured with a CURELASTOMETER TYPE R, wherein the

minimum torque is measured under the following conditions and, wherein a content of the composition (B) is 0.5 to 50 parts by mass based on 100 parts by mass of a content of the elastomer (A);

(Conditions)

Sample: 10 g

Temperature: 60°C

Amplitude angle: ±3°

Measurement time: 10 minutes.

[0004b]

In another aspect of the present disclosure, there is provided a sealing material obtained from the elastomer composition as disclosed herein.

[0004c]

In a further aspect of the present disclosure, there is provided a method for producing a sealing material, comprising a step of crosslinking the elastomer composition as disclosed herein.

Technical Problem

[0005]

Liquid or oily components have been used in conventional uncrosslinked rubber compositions such as the composition described in Patent Literature 1.

In order to form a molded body such as a sealing material exhibiting desired physical properties from such an uncrosslinked rubber composition, each component in the composition needs to be uniformly mixed. However, in the case of making a composition including a crosslinkable fluoroelastomer and a liquid or oily component to a uniform composition, it takes a long time, and there is room for improvement in this respect.

CLAIMS

[Claim 1]

An elastomer composition comprising:

a crosslinkable fluoroelastomer (A) that is a compound having no hydrosilyl group; and

a composition (B) that comprises a compound having a perfluoro skeleton having an ethylenically unsaturated bond that is a compound other than the elastomer (A), the composition (B) having a minimum torque at 60°C of 0.5 kgf·cm or more as measured with a CURELASTOMETER TYPE R, wherein the minimum torque is measured under the following conditions and,

wherein a content of the composition (B) is 0.5 to 50 parts by mass based on 100 parts by mass of a content of the elastomer (A);

(Conditions)

Sample: 10 g

Temperature: 60°C

Amplitude angle: ±3°

Measurement time: 10 minutes.

[Claim 2]

The elastomer composition according to claim 1, wherein the elastomer (A) is a peroxide-crosslinkable

fluoroelastomer.

[Claim 3]

The elastomer composition according to claim 1 or 2, wherein the elastomer (A) is a vinylidene fluoride-hexafluoropropylene-tetrafluoroethylene polymer.

[Claim 4]

The elastomer composition according to any one of claims 1 to 3, comprising a crosslinking agent (C).

[Claim 5]

The elastomer composition according to any one of claims 1 to 4, comprising a crosslinking aid (D).

[Claim 6]

The elastomer composition according to any one of claims 1 to 5, wherein a content of a filler is 5 parts by mass or less based on 100 parts by mass of the elastomer (A).

[Claim 7]

A sealing material obtained from the elastomer composition according to any one of claims 1 to 6.

[Claim 8]

A method for producing a sealing material, comprising a step of crosslinking the elastomer composition according to any one of claims 1 to 6.