

BLOCK COPOLYMER COMPOSITION, HEAT-SHRINKABLE FILM, AND CONTAINER

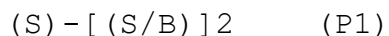
ABSTRACT

The present invention aims to provide: a block copolymer composition capable of realizing a heat-shrinkable film with good shrinkage finishability while maintaining a balance among moderate flexural modulus, tensile breaking strength, flowability, and glass transition temperature; a heat-shrinkable film using the block copolymer composition; and a container to which the heat-shrinkable film is attached.

Provided is a block copolymer composition containing at least one kind of a block copolymer having a vinyl aromatic hydrocarbon monomer unit and a conjugated diene monomer unit, wherein the block copolymer composition satisfies following (1)-(4):

(1) when a total of the vinyl aromatic hydrocarbon monomer unit and the conjugated diene monomer unit in the block copolymer composition is taken as 100 mass%, a content of the conjugated diene monomer unit is 10-20 mass%;

(2) the block copolymer composition contains 60-100 mass% of the block copolymer having a structure represented by a following general formula P1:



in the general formula P1, (S) is a polymer chain of the vinyl aromatic hydrocarbon monomer unit, and (S/B) is a copolymer chain having the vinyl aromatic hydrocarbon monomer unit and the conjugated diene monomer unit;

(3) a number average molecular weight of the block copolymer contained in the block copolymer composition is 100,000-200,000; and

(4) when a storage modulus measured at 70°C and a storage modulus measured at 100°C in dynamic viscoelasticity measurement measured in accordance with JIS K7244-1 and JIS K7244-5 under conditions of a temperature rising rate of 4°C/min and a frequency of 1 Hz are each defined as E'70 and E'100, a calculated value V based on a following calculation formula F1 is $0.5 \times 10^{16} - 2.0 \times 10^{16}$

$$V = E'70 \times (E'70 - E'100) / 30 \quad (F1).$$