

BLOCK COPOLYMER COMPOSITION, HEAT-SHRINKABLE FILM, AND CONTAINER

ABSTRACT

Provided are a block copolymer composition capable of realizing a heat-shrinkable film that exhibits good heat-shrinkability and has excellent shrinkage finishability and natural shrinkage resistance; 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 12-30 mass%; (2) a weight average molecular weight in GPC measurement is 100,000-300,000 in terms of polystyrene; (3) a loss tangent value ($\tan \delta$) 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 has at least one peak in a range of 80-105°C; and (4) a storage modulus (E'_{30}) at 30°C, a storage modulus (E'_{70}) at 70°C, a storage modulus (E'_{80}) at 80°C, and a storage modulus (E'_{90}) at 90°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 satisfy following relationships: $1400 \text{ MPa} < E'_{30} < 3000 \text{ MPa}$, $150 \text{ MPa} < (E'_{70} - E'_{80}) < 400 \text{ MPa}$, $150 \text{ MPa} < (E'_{80} - E'_{90}) < 400 \text{ MPa}$.