CLAIMS

1. A block copolymer having a first vinyl aromatic block (S1), a second vinyl aromatic block (S2), and a copolymerization block (B/S), wherein:

the first vinyl aromatic block (S1) is substantially composed exclusively of a vinyl aromatic monomer unit;

the second vinyl aromatic block (S2) is substantially composed exclusively of the vinyl aromatic monomer unit;

a weight average molecular weight of the second vinyl aromatic block (S2) is equal to or less than a weight average molecular weight of the first vinyl aromatic block (S1);

the copolymerization block (B/S) is substantially composed exclusively of the vinyl aromatic monomer unit and a conjugated diene monomer unit;

a content ratio of the conjugated diene monomer unit in the copolymerization block is 55 mass% or more and 82 mass% or less;

a ratio of the first vinyl aromatic block (S1) is 50 mass% or more and 85 mass% or less when a total of masses of the first vinyl aromatic block (S1) and the second vinyl aromatic block (S2) is taken as 100 mass%;

a content ratio of the copolymerization block in the block copolymer is 40 mass% or more and 60 mass% or less;

a ratio of the vinyl aromatic monomer unit in the block copolymer is 64 mass% or more and 75 mass% or less when a total mass of the vinyl aromatic monomer unit and the conjugated diene monomer unit is taken as 100 mass%;

the weight average molecular weight of the first vinyl aromatic block (S1) is 30000 or more and 100000 or less; and

the block copolymer has at least one peak of a loss tangent value (tanδ) in a range of -70 to -35°C when a dynamic viscoelasticity measurement is performed under conditions of a temperature increase rate of 4°C/min, a frequency of 1 Hz, and a strain of 0.02% in accordance with ISO6721-1.

2. The block copolymer of Claim 1, wherein the copolymerization block (B/S) is a random copolymerization block of the vinyl aromatic monomer unit and the conjugated diene monomer unit.

3. The block copolymer of Claim 1 or 2, wherein:

the block copolymer is linear-chain; and

an arrangement of polymerization blocks is (S1)-(B/S)-(S2) or (S2)-(B/S)-(S1).

4. A composition containing the block copolymer of any one of Claims 1 to 3, wherein the composition further contains a polymer different from the block copolymer.

5. The composition of Claim 4, wherein a content ratio of the block copolymer is 15 mass% or more and 85 mass% or less.

6. A heat-shrinkable film comprising a layer constituted of the composition of Claim 4 or 5.

7. A sheet comprising a layer constituted of the composition of Claim 4 or 5.

8. A molded article obtained by molding the sheet of Claim 7.