described in (5), it is preferable that the olefin polymer (X) be a propylene polymer (X-1) and the 1-butene·α-olefin copolymer (Y) be a 1-butene·propylene copolymer (Y-2).

[0019]

(11) In the 1-butene·α-olefin copolymer composition described in (5), the 1-butene·propylene copolymer (Y-2) is preferably a 1-butene·propylene copolymer having an elution amount using o-dichlorobenzene at -10°C of not more than 3 mass%.

[0020]

(12) In the 1-butene·α-olefin copolymer composition described in (5), it is preferable that the total amount of elution using o-dichlorobenzene at temperatures of not more than [Ts]°C be 1.0 mass% to 5.0 mass% wherein [Ts] is characterized by the equation: [Ts] = [C4] - 60 wherein [C4] is the proportion in mol% of 1-butene in the 1-butene·propylene copolymer (Y-2).

[0021]

(13) Another aspect of the invention resides in a 1-butene·ethylene copolymer including 99.9 to 85 mol% of 1-butene and 0.1 to 15 mol% of ethylene (wherein the total of the 1-butene and the ethylene is 100 mol%) and having a molecular weight distribution (Mw/Mn) of 1.0 to 3.5.

[0022]

(14) The 1-butene·ethylene copolymer described in (13)

preferably has an elution amount using o-dichlorobenzene at -10°C of not more than 3 mass%.

[0023]

(15) Another aspect of the invention resides in a 1-butene·propylene copolymer including 99.9 to 70 mol% of 1-butene and 0.1 to 30 mol% of propylene (wherein the total of the 1-butene and the propylene is 100 mol%) and having a molecular weight distribution (Mw/Mn) of 1.0 to 3.5.

[0024]

(16) The 1-butene·propylene copolymer described in (15) preferably has an elution amount using o-dichlorobenzene at -10°C of not more than 3 mass%.

[0025]

(17) In the 1-butene·propylene copolymer described in (15) or (16), it is preferable that the total amount of elution using o-dichlorobenzene at temperatures of not more than [Ts]°C be 1.0 mass% to 5.0 mass% wherein [Ts] is characterized by the equation: [Ts] = [C4] - 60 wherein [C4] is the proportion in mol% of 1-butene in the copolymer.

ADVANTAGEOUS EFFECTS OF INVENTION

[0026]

When used in packaging films, the 1-butene·α-olefin copolymer compositions of the invention not only exhibit excellent low-temperature heat sealing properties but are free

[Claim 11]

The 1-butene·α-olefin copolymer composition according to claim 5, wherein the 1-butene·propylene copolymer (Y-2) is a 1-butene·propylene copolymer having an elution amount using o-dichlorobenzene at -10°C of not more than 3 mass%.

[Claim 12]

The 1-butene·α-olefin copolymer composition according to claim 5, wherein the total amount of elution using o-dichlorobenzene at temperatures of not more than [Ts]°C is 1.0 mass% to 5.0 mass% wherein [Ts] is characterized by the equation: [Ts] = [C4] - 60 wherein [C4] is the proportion in mol% of 1-butene in the 1-butene·propylene copolymer (Y-2).

[Claim 13]

A 1-butene·ethylene copolymer comprising 99.9 to 85 mol% of 1-butene and 0.1 to 15 mol% of ethylene (wherein the total of the 1-butene and the ethylene is 100 mol%) and having a molecular weight distribution (Mw/Mn) of 1.0 to 3.5.

[Claim 14]

The 1-butene·ethylene copolymer according to claim 13, which has an elution amount using o-dichlorobenzene at -10°C of not more than 3 mass%.

[Claim 15]

A 1-butene·propylene copolymer comprising 99.9 to 70 mol% of 1-butene and 0.1 to 30 mol% of propylene (wherein the total of the 1-butene and the propylene is 100 mol%) and having a molecular weight distribution (Mw/Mn) of 1.0 to 3.5.

[Claim 16]

The 1-butene·propylene copolymer according to claim 15, which has an elution amount using o-dichlorobenzene at -10°C of not more than 3 mass%.

[Claim 17]

The 1-butene·propylene copolymer according to claim 15 or 16, wherein the total amount of elution using o-dichlorobenzene at temperatures of not more than [Ts]°C is 1.0 mass% to 5.0 mass% wherein [Ts] is characterized by the equation: [Ts] = [C4] - 60 wherein [C4] is the proportion in mol% of 1-butene in the 1-butene·propylene copolymer.