

WATER-SOLUBLE COPOLYMER
HAVING ALKYL-MODIFIED CARBOXYL GROUPS

Abstract

The present invention provide a water-soluble
5 copolymer having alkyl-modified carboxyl groups which is
able to produce a neutralized viscous liquid in which
although its viscosity is very low when no electrolyte
exists, the viscosity greatly increases when electrolytes
are added, which has a high viscosity and a high
10 transmittance and which has moist textures without
stickiness even in the presence of a relatively high
concentration of electrolytes, and a thickening agent
comprising the same. More specifically, the present
invention provides a water-soluble copolymer having
15 alkyl-modified carboxyl groups which is obtained by
polymerizing 100 parts by weight of (meth)acrylic acid,
0.5-5 parts by weight of alkyl (meth)acrylate comprising
an alkyl group having a carbon number of 18-24, and 0-0.1
parts by weight of a compound having two or more of ethylenic
20 unsaturated groups, wherein a 1 weight %-neutralized
viscous liquid shows a viscosity of 1500 mPa·s or lower and
a transmittance of 90 % or higher, and when 0.25-5 parts
by weight of sodium chloride is added to 100 parts by weight
of the neutralized viscous liquid, the liquid shows a
25 highest viscosity of 15000-40000 mPa·s and a transmittance
of 90 % or higher, and a thickening agent comprising the
same.