

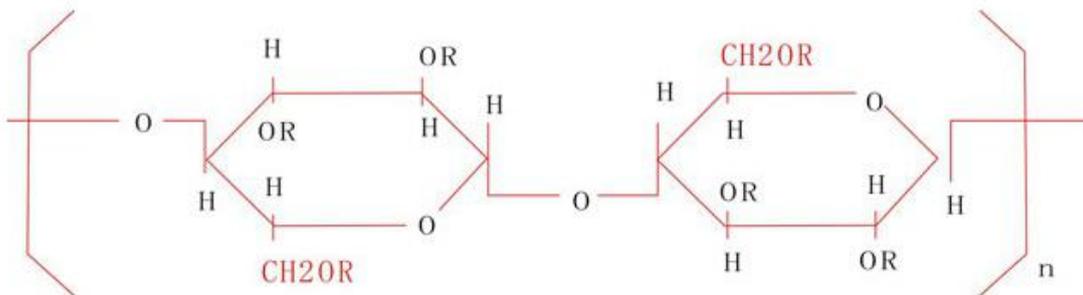


**Hebei Yibang Building Materials Co., Ltd**

**Tel: +8613785166166**  
**www.yibanghpmc.com**

### Hydroxypropylmethylcellulose

#### First, Molecular composition and structural formula



#### Second, the technical requirements

<b>Project Name</b>	<b>60YB</b>	<b>65YB</b>	<b>75YB</b>
Methoxy	28.0-30.0	27.0-30.0%	19.0-24.0%
Hydroxypropyl (%)	7.0-12.0	4.0-7.5 %	4.0-12.0 %
Gelation temperature (°C)	58-64	62-68	70-90
Moisture (%)	≤5		
Grey (%)	≤5		
PH value (1% solution, 25 °C)	4.0-8.0		

#### Third, the physical and chemical properties

1, Appearance: HPMC is white or off-white fibrous or granular powder; odorless.

2, soluble: HPMC in ethanol, ethyl ether, acetone, almost insoluble in cold water swelling into a clear or slightly turbid colloidal solution. HPMC is soluble in certain organic solvents, may be dissolved in a mixed solvent of water — organic solvent.

3, particle size: 100 mesh pass rate & ge; 98.5,80 mesh pass rate of 100%.

4, depending on the density: 0.30-0.70g / cm<sup>3</sup>, a density 1.26-1.31g / cm<sup>3</sup>.

#### **Fourth, the main purpose**

HPMC products directly into the water, will produce condensation, then dissolved, but this dissolves very slow and difficult. Here recommend three kinds of dissolution method, the user can use to choose the most convenient way:

1, Hot method: adding a third or two-thirds of the required amount of water in the container and heated to above 80 °C, due to HPMC does not dissolve in hot water, so the initial HPMC can be uniformly dispersed in hot water ; then added to the remaining amount of cold water or ice to the water in the slurry, followed by stirring the mixture was cooled.

2, the powder mixing: the HPMC powder particles equal to or greater amount of other powder ingredients by dry mixing sufficiently dispersed, and then dissolved in water, at this time can be dissolved HPMC, without cohesion.

3, an organic solvent wet: The HPMC with an organic solvent such as ethanol, ethylene glycol, or oil is dispersed or pre-wetting and then dissolved in water, at this time can be dissolved HPMC smoothly.

#### **Fifth, the dissolution method**

Store in a cool, dry environment below 30 °C to prevent moisture, avoid high temperature pressure

#### **Six, packaging and storage**

Products using the cardboard lined with polyethylene bags or bags package, barrel (bag) net weight 20 or 25kg. When storing put in dry indoor air, pay attention to moisture. During transport, rain and sun.