

2-hydroxyethyl acrylate (HPA)

Introduction:

Ester content $\geq 98\%$

Free acid $\leq 0.5\%$

Inhibitor: 200 +20 PPM

Color $\leq 30 \#$

Moisture $\leq 0.5\%$

Molecular Weight: 130.08

Appearance: colorless transparent liquid

Relative density: 1.0536

Freezing point:

Boiling point: 77 °C (0.667kPa)

Viscosity (25 °C): 10MPa · s

Refractive index: 1.4443

Polymer glass transition temperature: -60°C for the

Flash point: 100°C

Solubility: soluble in water, soluble in alcohol, ether, acetone and other common organic solvents

Stability: easy polymerization heat, flammable

Toxicity: toxic, contact with skin or eyes, can cause inflammation

Physical and Chemical Properties

Colorless transparent liquid, highly aggregated, with water, alcohols, ethers and other organic solvents, gravity :1.09-1.059, flash point: 1000C

Use:

The products are mainly used in the manufacture of thermosetting acrylic paint, light-cured coatings, photographic coatings, textile treatment agent, adhesives, paper processing, water stabilizer and polymer materials. Have used less, but can significantly improve product performance characteristics, as a solvent-based acrylic emulsion and adhesive cross-linking monomer. Also used as a light-curing adhesive reactive diluent. Also used as a fast-drying water-based acrylic adhesive cross-linking monomer, can significantly improve the cohesive strength and adhesive properties, when the dosage of 15ml / L, the peel strength reached the maximum (0.51kN / m).

Hydroxypropyl acrylate (HPA) is a (different) difunctional monomer, extremely versatile. HPA for fiber processing, fiber can improve the water resistance, solvent resistance and wrinkle resistance, etc.; HPA copolymers with vinyl monomers and amino Or isocyanate resin with curing reaction can be obtained with excellent performance thermosetting coatings. HPA with vinyl monomers to form a strong adhesive bond strength; HPA synthetic rubber, acrylic copolymer obtained, showing good heat resistance and oil resistance; with HPA latex coating the paper surface, the water can increase the paper and strength. HPA also be used as lubricant additives. In addition, HPA or organic reaction intermediates as well as good solvent.

Acrylic acid and hydroxypropyl acrylate copolymer, its calcium carbonate, calcium sulfate scale, especially the formation and deposition of calcium phosphate has good inhibition for ferric oxide sludge, clay and grease have good dispersion properties ; in high pH conditions of use; T-225 with organic phosphonates, BTA and other segments of the good, the inhibition of zinc deposition and precipitation of calcium phosphate scale effects. At higher temperatures and under alkaline conditions have a good scale inhibition and dispersion effect.

Transportation and precautions:

- 1, to avoid the sun, open storage, the use of insulation material;
- 2, the water can promote the polymerization reaction, the water should be avoided;
- 3, the storage period: at room temperature in the second half;
- 4, transport to avoid collision in case of spill, the washing with water;
- 5, there is erosion of the skin and mucous membranes, promptly after touching rinse with water

Package: 200 kg plastic drums or plastic iron drum.

