Storage & Handling :

Carbomer range is highly hygroscopic in supplied form, it contains maximum of 2.0% moisture. When exposed to open air at room temperature and 50% relative humidity, its equilibrium moisture uptake is 8.0%. All those moisture uptake does not effect its efficiency but polymer with high level of moisture is more difficult to disperse and weigh accurately. So, Carbomer polymers must be stored in a tightly closed container and away from direct contact with water and excessive humidity condition.

Carbomer polymers' efficiency will not affect up to two hours at temperatures below 104°C. When it is exposed to excessive temperatures, it can be plasticized and loss its characteristics.

Self life:

Liquid form : One year from date of manufacturing in intact condition.
Note : Based on our testing, Liquid Hairpol polymers should last one year for years if stored properly
and protected from moisture and extreme temperatures.

Powder : 5 years from date of mfg.

Packing:

Liquid form : 60 kg plastic carboys & 200 kg plastic drum.
Powder From : 20kg Paper Drum

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Survey No, 183, At. Hardesan, Ta & Dist, Mehsana-384205 (N.Guj) India
sales@charonpharmachem.com
info@charonpharmachem.com
+91 98791 06580 +91 98791 09660
www.charonpharmachem.com

CARBOMER
(HAIRPOL)

- Topical Application
- Suspending Agent
- Cosmetic Formulation
- Thickening Agent
- Emulsifying Agent

GRADE

Carbomer 940	Carbomer 974P
Carbomer 980	Carbomer 971P
Carbomer 934	Carbomer 971G
Carbomer 974	Carbomer 956
Carbomer 941	Carbomer 990
Carbomer 971	Carbomer 996
Carbomer 934P	Carbomer ET-1 Liquid



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Grades :

High surfactant system : Carbomer

Carbomer (Hairpol)

It is a liquid acrylic rheology modifier, designed to suspend, stabilize, thicken and enhance the appearance of surfactant-based cosmetic, pharmaceutical and household formulation. It is very much useful where surfactant level is high. It is a cost-effective and easy-to-use polymer.

Recommended applications :

- Shampoo
- Hand sanitizers
- High electrolyte formulations
- Cleaning products
- Dish Washing Gel
- Hydro-alcoholic gels
- Cleanser
- Bath gel
- Face wash
- Shower Gel

Advantages :

- Thickening efficiency - High viscosity at low concentration.
- Uniform performance - Hairpol gives uniform viscosity performance, while natural gums vary in their performance.
- Temperature stability - There is no significant effect of temperature on viscosity performance.
- Unaffected by aging -Excellent shelf life.
- Safety - Years of successful use of Carbomer

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- Microbial resistance - Resists bacterial attack and do not support mould growth.
- Versatility - Although primarily used in aqueous systems with neutralization, it can also be used in solvent systems, with or without neutralization.
- Elegance -Smooth and luxurious feeling.

Neutralizes :

Carbomer polymers are dry, highly coiled acidic molecules. After dispersion in water, it begin to hydrate and partially uncoil. Maximum thickening can be achieved by converting the acidic Carbomerl polymer to a salt. It is easily achieved by neutralizing the Carbomer range with a common base such as Sodium Hydroxide (NaOH) or Triethanolamine (TEA). The recommended neutralizers to adjust the pH of Hairpol range solution are : Sodium hydroxide (NaOH), Potassium hydroxide (KOH), Tri-ethanolamine (TEA), Ammonia (28%), Diisopropanolamine, Aminomethyl Propanol (AMP), Ammonium Hydroxide (NH_4OH), Arginine etc.

It is preferable to add strong bases previously diluted with water at a concentration not more than 10.0-20.0%.

Toxicity :

Carbomer range is a high molecular weight polymer. It does not absorbed by body tissues and is totally safe for human oral consumption. Test for toxicological tolerance shows that it does not have any pronounced, physiological action and is non-toxic.

Dermal irritation (in vitro test) - non irritant.

Eye irritation (in vitro test) - non irritant.

Skin sensitization (max. test) - non sensitizing.

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