

## Product Description

PEO P100 is a non-ionic, water-soluble poly(ethylene oxide)polymer with a high molecular weight of 1,000,000. P80 is a rheology modifier that is used to precisely control the viscosity of water based formulation. P100 can be cast or extruded into thermoplastic, water-soluble films.

Molecular formula:  $\text{HO}(\text{CH}_2\text{CH}_2\text{O})_n\text{H}$

## Specifications

Items	Specification
Appearance	White Powder
PH value, 25°C, 1%	7-9
Mesh 20,	100%
Mesh 40	≥90%
Dry loss,105°C, wt%	≤1.5%
Ash content,wt%	≤0.5%
Epoxypropane,mg/kg	0.5max
Antioxidant,mg/kg	0.15max
MW,D	900,000-1500,000
Pb content, mg/kg	≤0.03
MI (g/min)	40

## Application Range

- **Cleaning Solutions**, it is used as a thicker and rheology modifier in household and institutional cleaner. It also provides emollient properties to cleaning consumer products.
- **Electronics**: it is a perfect binder for fluorescent lighting, battery electrodes, energy storage devices, cable lubricant, and optical fibers.
- Lubricants**: is used to improve lubricity and rheology many lubricant formulations. It is also utilized as a drag reduction agent for piping and wiring applications.
- Pump and paper**:it provides excellent functionality as a retention aid and drainage agent in tissue and paper applications. It can be used alone or combined with other polymer such as polyacrylamides.
- Water treatment and mining**: it is a high efficiency flocculant for clay, silica, oxidized coal fines and heavy metal. It

also used for dust suppression and to improve dewatering efficiency for clear water separation.

Can be as a thickener, binder, film former, lubricant, and water retention aid in formulations. It can be used for a variety of applications and it is most commonly used in electronics, lubricants, paper, cleaners, and mining for its high viscosity and flocculation properties.

### **Key Properties**

- Water-soluble
- Soluble in some organic solvents
- Thickening with high viscosity and wide PH stability
- Film former with resistance oil and greases
- Excellent binder for organic and inorganics
- High wet tack with dry release
- Viscoelastic to reduce drifting, misting and splattering
- Emollient for consumer products
- Low toxicity, non-irritant with poor absorption
- Crosslinkable for high retentive gel

### **Packaging and Storage**

- A. Standard Packing: In 20kg/ bags inner PE bags
- B. Standard Packing: In 20kg/barrel.
- C. Standard Packing: in 15kgs carton inner PE bags.

Store it in a cool, dry place below 30 degree and protected against humidity and pressing

### **Safety Notes**

The above data is in accordance with our knowledge, but don't absolve the clients carefully checking it all immediately on receipt. To avoid the different formulation and different raw materials, please do more testing before using it. We reserve the right to alter our product and without informing in advance.

### **Company Information**

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