

# Honeywell Asensa® PR 210

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**INCI Name:**

**Polyethylene (and) Stearic Acid**

**CAS: 9002-88-4 (Polyethylene), 57-11-4 (V-1890 Veg. Stearic Acid)**

**EINECS: 200-815-3 (Ethylene), 200-313-4 (V-1890 Veg. Stearic Acid)**

**Listed in the following registries:**

TSCA (US), DSL (CAN), ENCS (Japan), AICS (Australia), IECSC (China), KECI (Korea), PICCS (Philippines)

## PRODUCT DESCRIPTION

**Asensa PR 210** is an off-white, soft-waxy material that is a blend of a low molecular weight polyethylene (INCI: Polyethylene) and a vegetable based hydrogenated fatty acid (INCI: Stearic Acid). The product has been specially formulated to give a melting point of around 80° C, which is lower than typical polyethylene grades used in personal care applications, thus making it easier to use in a variety of formulations.

The product has occlusive properties that make it well suited as an effective emollient and barrier agent for use in both oil-in-water (O/W) and water-in-oil (W/O) emulsion products and the components have been shown to help reduce transepidermal water loss (TEWL). The two component blend offers a pleasant, non-greasy skin feel. Polyethylene is especially effective in sunscreen applications where it contributes to a more even distribution of both organic and inorganic UV filters in the final film deposited on the skin. Asensa PR 210 also finds application as a viscosity increasing agent for various oil or anhydrous systems.

Both components are listed by the FDA in Title 21 of the Code of Federal Registers for use in certain food applications

## TYPICAL PROPERTIES

Property	Asensa PR 210
Color (Klett Max)	100
Hardness @ 25° C (dmm)	35
Drop Point, Mettler (°C)	~80
Acid Number (mg KOH/g)	100
Physical Form	Soft Waxy Pellet

## APPLICATIONS

Occlusive agent, emollient, film former for use as a moisturizer in as ingredients in:

- Lotions
- Creams
- Sunscreens

Gelling agent, rheology modifier for use in oil containing formulations such as:

- Balms and oils
- Pomades
- Styling products

Usage levels can be from 2% upwards, the product would need to be heated to incorporate into a formulation.

## HANDLING

The expiration date for this product is five years after shipment, provided the original packaging is intact. Please see product MSDS for any further handling instructions.

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