

# Honeywell Asensa® PR 220

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**INCI Name:**

**Ethylene/VA Copolymer (and) Stearic Acid**

**CAS: 108-05-4 (Ethylene/VA Copolymer), 57-11-4 (Stearic Acid)**

**EINECS: 200-815-3 (Ethylene), 203-545-4 (Vinyl Acetate), 200-313-4 (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 220** is an off-white, soft-waxy material that is a blend of a copolymer of ethylene and vinyl acetate (INCI: Ethylene/VA Copolymer) 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 copolymer grades used in personal care applications, thus making it easier to use in a variety of formulations. Nevertheless, the blend still offers structuring and viscosity enhancement of lipids and waterproofing and moisture barrier properties.

The blend of slightly polar materials makes it a particularly effective rheology modifier of vegetable oils or esters in lipid based anhydrous systems or both oil-in-water (O/W) and water-in-oil (W/O) emulsions. It is also used to aid in the dispersion of particulates in oil systems. In lipstick and similar applications it imparts a good gloss to the final product.

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 220
Color (Klett Max)	80
Hardness @ 25° C (dmm)	7 -12
Drop Point, Mettler (°C)	~80
Acid Number (mg KOH/g)	100
Physical Form	Soft Waxy Pellet

## APPLICATIONS

Crystal structure modification structuring of and syneresis control of:

- Lipsticks
- Gels
- Oil based formulations, including fragrance oils

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

- Balms and oils
- Pomades
- Styling products

Gellation is effective even with natural oils and commonly used solubilizing esters. Gellation properties will vary depending on the cooling process. Usage can be from 2% upwards. The product needs to be heated to incorporate into formulations.

## 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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