CWAX 440

PE Wax, also known as Polymer wax, short for Polyethylene Wax, is widely used because of its excellent property of cold / heat / chemical and abrasion resistance. In normal production, this part of wax can be directly added to the polyolefin processing as an additive; it can increase the gloss and processing performance.

Properties:

Item	Standard Value(s)	Test Method
Physical Form	Waxy Powder / Prill	Visual
Colour	White	Visual
CAS No.	9002 88 4	-
Melting Point, ºC	114±4	ASTM D3418
Drop Point, ºC	116±3	ASTM D127
Softening Point, ºC	105±4	ASTM E28-97
Crystallization Point, ºC	96±5	ASTM E794-06
Moisture Content	Less than 0.1%	-
Oil Content	Less than 0.1%	ASTM D721
Penetration *100 gms* @ 25 ºC	<5 dmm	ASTM D1321-02a
Viscosity @ 140 ºC	20±5 cP	ASTM D3236
Density, g/CC	0.90±0.2	ASTM C693
Heat Stability @ 150 ºC	No Change in Colour	Visual
Molecular Wt. (GPC)	1800±10%	LS-101/15
Acid Value	NIL	ASTM D1386-15
Peak Chain Length (SEC)	35 – 45 carbon atoms	-
Flash Point	Open cup 220±5 ºC	-
Odour	Passes	Visual

Packing: 25 KGs BOPP bag with Inner lining or according to customer's requirements

Storage: Keep in dry, cool & shaded place with original packing, avoid moisture, store at room temperature. Shelf life is 24 months.

Application:

1. PVC- Acts as a dispersant, lubricant & brightener in PVC Profile, pipe, pipe fitting, foam board, WPC products etc. It has a good late-period lubricating ability & will bring gloss in the appearance & lower processing torque.

2. Masterbatch- Used as an efficient dispersant in masterbatch, filler masterbatch, modified masterbatch & functional masterbatch. It makes the products inorganic components & pigments disperse better since it is an excellent external & internal lubricant.

3. PVC Stabilisers- In PVC processing, PE wax is used as both an internal and external lubricant. It aids in: Reducing viscosity, preventing adhesion to processing equipment, Enhancing the thermal stability of PVC formulations.

4. Release Agent- PE wax is used as a mold release agent in injection molding, extrusion, and other molding processes. It prevents the finished plastic parts from sticking to molds, which: Facilitates easier demolding & Reduces defects and damage to parts.

5. Modifier for Polyolefins- Adding PE wax to polyolefin resins (like polyethylene and polypropylene) can modify their properties, such as: Increasing hardness, enhancing abrasion resistance & Improving scratch resistance.

6. Hot Melt Adhesives- Used to better adjust the productivity, viscosity & hardness. Improves adhesive strength, enhances thermal stability & gives better resistance to heat and chemical exposure.

7. Paint- Used in paint, coating, road marking paint where its main performance is heat resistance, deforming, leveling, anti-settling & dispersion. It can increase the products surface hardness, wear resistance & anti-smearing properties.

8. Rubber- Used as rubber processing auxiliaries, enhances diffusion of fillers, improves extrusion rate, increases flowability of the mold, easy mold release, improves product surface brightness & smoothness after stripping off from the mold.

9. Surface Coatings and Inks- PE wax is incorporated into surface coatings and inks to: Improve abrasion resistance, enhance slip and anti-block properties as well as provide a matte finish.