

CWAX 110

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 Flakes | Visual |
| Colour | White | Visual |
| CAS No. | 9002 88 4 | - |
| Melting Point, °C | 112±3 | ASTM D3418 |
| Drop Point, °C | 115±3 | ASTM D127 |
| Softening Point, °C | 103±3 | ASTM E28-97 |
| Moisture Content | Less than 0.1% | - |
| Oil Content | Less than 0.5% | ASTM D721 |
| Penetration 100 gms @ 25 °C | 5±2 dmm | ASTM D1321-02a |
| Viscosity @ 140 °C | 15±5 cP | ASTM D3236 |
| Density, g/CC | 0.90±0.2 | ASTM C693 |
| Hardness | Max 4 | ASTM D1321-16a |
| Heat Stability @ 150 °C | No Change in Colour | Visual |
| Molecular Wt. (GPC) | 1800±10% | LS-101/15 |
| Acid Value | NIL | ASTM D1386-15 |
| Flash Point | Open cup 220±5 °C | - |
| 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.