

POLYETHYLENE-WAX MA-WAX

INTRODUCTION

Polyethylene wax, also known as PE Wax, is an ultra-low molecular weight PE consisting of ethylene monomer chains.

Polyethylene Wax (PE-WAX) would be solid and odorless with white color and it is a Polymer Wax that would be in different modes and appearances such as Flake, Granules, Prills, LMP, and Lump.

Heavy Polyethylene wax has a linear structure and is produced with low and medium pressure. PE-WAX is one of the most common external lubricants. Ultra-low molecular weight polyethylene (average number of molecular weight min. less than 10,000) has the properties and functions like Wax. PE WAX would be produced through polymerization in high pressure with catalysts that contain oxygen or polymerization in low pressure by using Ziegler-Natta catalyst or breaking chains way.

The PE WAX quality would be under the effects of Viscosity, melting point, density, and the ability to migrate to the surface and its color.



Typical Properties	MA-WAX	Unit	Test Method
Appearance	White flakes	-	Visual
Melting point	100-105	°C	ASTM D3418
Penetration	4-7	d-0.1mm	ASTM D1321
Viscosity 140 °C	5-30	cps@140 °C	ASTM D1986
Density	0.88-0.92	g/cm ³ , 25 °C	ASTM D1505
Acid value	0	Mg KOH/g	ASTM D1386

APPLICATION

- ◆ Textile
- ◆ Asphalt
- ◆ Coating
- ◆ Polishes
- ◆ Slip agent
- ◆ Printing inks
- ◆ PVC industry
- ◆ Cable industry
- ◆ Hot melt adhesive
- ◆ Viscosity modification
- ◆ Paraffin compounding
- ◆ Process aid for rubber
- ◆ Wood – plastic composites
- ◆ Pigment dispersion promoter
- ◆ Candles (providing increased hardness and thermal resistance)

