



## HDPE Wax (High Density Polyethylene Wax) – Technical Data Sheet (TDS)

### Product Identification

**Product Name:** HDPE Wax

**Chemical Name:** High Density Polyethylene Wax

**CAS Number:** 9002-88-4

**Appearance:** White powder, flakes, or granules

**Product Type:** Synthetic Polyethylene Wax

**Application:** Lubricant, dispersing agent, processing aid, surface modifier

## Technical Data Sheet (TDS)

### Product Description

HDPE Wax is a low molecular weight high-density polyethylene wax designed for use in PVC processing, masterbatch production, plastic compounding, coatings, printing inks, hot melt adhesives, and rubber applications. It provides excellent lubrication, dispersion, thermal stability, and surface enhancement properties.

### Typical Physical Properties

Property	Unit	Typical Value
Appearance	-	White Powder/Flakes
Density @ 25°C	g/cm <sup>3</sup>	0.95 – 0.98
Melting Point	°C	105 – 135
Viscosity @ 140°C	cps	100 – 5,000
Penetration @ 25°C	dmm	1 – 10
Acid Value	mg KOH/g	≤ 1
Volatile Content	%	≤ 0.5
Ash Content	%	≤ 0.1
Molecular Weight	g/mol	1,000 – 8,000
Color	-	White
Odor	-	Slight
Solubility in Water	-	Insoluble

*Values are typical and not intended as product specifications.*



## Key Benefits

- Excellent external lubrication
- Improved melt flow characteristics
- Enhanced pigment dispersion
- Better filler distribution
- Reduced processing torque
- Increased production efficiency
- Improved surface gloss and smoothness
- Excellent thermal stability
- Good scratch and abrasion resistance

## Recommended Applications

### PVC Processing

- PVC pipes
- PVC fittings
- Profiles
- Sheets
- Cable compounds

### Masterbatch Production

- Color masterbatch
- Filler masterbatch
- Additive masterbatch

### Plastic Processing

- Polyolefin compounding
- Engineering plastics
- Recycled plastics

### Other Uses

- Hot melt adhesives
- Coatings
- Printing inks
- Rubber compounds



## Storage and Handling

Store in a cool, dry, and well-ventilated area.

Recommended storage temperature:

- Below 40°C

Avoid:

- Direct sunlight
- Excessive heat
- Open flames
- Moisture contamination

Shelf life:

- Minimum 24 months in unopened packaging under recommended conditions.

## Packaging

Available packaging options:

- 20 kg bags
- 25 kg bags
- Jumbo bags
- Customized packaging upon request