



Banyan Zara Haq EKA
Westenhellweg 114, 44137 Dortmund, Germany
Tel: 0231 53463766 Fax: 0231 53463766
Mobil: +49 1633203311
E-mail info@banyan-net.de

PE WAX 101

Technical DATA SHEET

Product Description:

PE-Wax 101 is a low molecular weight, non-oxidized, high-density homopolymer polyethylene wax (HDPE wax) produced as a by-product during a low-pressure polymerization process.



TYPICAL PROPERTY VALUES

PROPERTIES	VALUE
Product Name	High Density Polyethylene Wax (HDPE Wax)
Synonyms	PE-wax, Synthetic wax, Polyolefin wax
Chemical Formula	$(C_2H_4)_n$
Molecular Weight	1000 – 2000 g/mol
Viscosity @ 140 °C	10 – 40 cP
Drop Melting Point	100 – 115 °C
Softening Point	95 – 115 °C
Penetration Hardness	< 15 dmm
Density	0.95 – 0.98 g/cm ³
Peak Chain Length (SEC)	35 – 45 carbon atoms
Homogeneity Index Mw/Mn	1.5 approx.
Appearance	White Flakes

Typical Composition

Polyethylene wax	Weight Percentage (%)
Polyethylene wax	≥ 98 %
Moisture	< 2 %



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Packaging:

- Uneven Jumbo Bags (600 – 650 Kg each)

Applications:

- As a viscosity modifiers.
- Used in plastic processing.
- Used in hot melt adhesives (HMA).
- As an external lubricant for the processing of polyvinyl chloride (PVC).
- As a dispersant to facilitate the distribution of dyes, pigments and fillers in polymers.
- Used in pigment master batches production as a carrier and binder, to provide wetting properties, thereby resulting in better dispersability.
- Used in rubber & tire industry as a processing aid, to provide release ability, viscosity adjustment, and compatibility.
- Used in printing inks as a heat and abrasion resistant, thereby improving the surface and enhancing the clearness of printing ink.
- Used in candle industry.

Notes:

- Wax flakes might stick together depending on the outside temperature & the weather conditions.
- All information mentioned above are based on the average specifications based on historical data.
- All waxes are produced during the production of HDPE using Hostalen ACP technology from LyondellBasell (Slurry process using Ziegler–Natta catalyst).



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MATERIAL DATA SHEET/ TEST REPORT

PRODUCT NAME: HIGH DENSITY POLYETHYLENE WAX FLAKES

MATERIAL DETAILS:

SOURCE: PETROCHEMICAL INDUSTRY

PACKING: 25KG & JUMBO BAGS

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUE	UNITS VALUE	TEST METHOD
Viscosity @ 140 ° C	08 – 50	(cPs)	ASTM D1986
Penetration Hardness @ 25 ° C	0.60 – 2	d.mm	ASTM D1321
Melting Point	73 – 76	°C	ASTM D3954

STORAGE AND HANDLING

- Product should be stored in dry and dust free location at temperature below 40 °C and protected from direct sunlight and/ or heat, well-ventilated area, away from incompatible materials and food and drink, as this may lead to quality deterioration, which results in odour generation and color changes and can have negative effects on the physical properties of this product.
- The product is not classified as hazardous material.