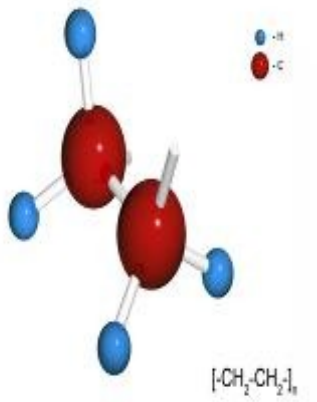

Is a leading manufacturer of high density, high melt point oxidized polyethylene waxes. Oxidized High Density Polyethylene (HDPE) is a specialty polymer that finds a wide range of applications as an additive in a broad range of industries.

The oxidation of HDPE allows formulators to incorporate the beneficial properties of hydrophobic HDPE into aqueous systems. Our Oxidized HDPE line can be incorporated into the formulation of emulsion manufacturers for the Overprint Varnish (OPV), inks and coatings, textiles and floor finishing industries. High Density, High Melt HDPE can help to improve the aesthetic properties and physical properties of ink and print systems.

Our oxidized HDPE line can also be used as a processing additive in the PVC manufacturing industry. The oxidized HDPE will help to maximize processing times by improving the PVC melt and flow characteristics.

It is our mission to be an industry leader and to offer cost-effective high standard oxidized plastics to the processing industry.

Oxidized Polyethylene Innovations

PVC Applications

 Oxidized HDPE, such as OPI 1307 and OPI 1316, have been used for decades in the PVC manufacturing sector. OPI 1307 and OPI 1316 can help improve the appearance and processing conditions of PVC production and help to optimize productivity. These oxidized HDPE waxes are used as lubricants to help achieve this process improvement by affecting the way in which the PVC melts and flows. OPI 1307 and OPI 1316 can help with the surface quality of the extrudate by affecting the gloss quality of the PVC product. OPI 1307 and OPI 1316 also can be utilized as an external lubricant for metal release in the PVC extrusion process. These functionalized waxes can help prevent the PVC from sticking to the metal extruder. This can improve output and quality of the PVC process and optimize operating parameters.

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Oxidized Polyethylene Innovations

Product List

Product Description– The OPI 1300 Series is a series of oxidized high density, high melt point polyethylene waxes.

Properties	ASTM Test Methods	OPI 1305	OPI 1307	OPI 1316	OPI 1325	OPI 1330
Acid Number (mg KOH/g)	D 1386	4-6	6-8	15-17	24-26	29-31
Density @ 23 degrees C (g/cm3)	D 792	>.96	>.96	>.96	>.96	>.96
Penetration @ 23 degrees C (dmm)	D 5	<.5	<.5	<.5	<.5	<.5
Emulsifiability		Poor	Poor	Fair	Good	Good
Appearance		White to Off-White Powder	White to Off-White Powder	White to Off-White Powder	White to Off-White Powder	White to Off-White Powder
Granulation		Pass 20 Mesh	Pass 20 Mesh	Pass 20 Mesh	Pass 20 Mesh	Pass 20 Mesh
DSC Melt Peak (degrees C)		136-138	136-138	136-138	136-138	136-138
Softening Point (R&B, degrees C)		128-129	128-129	128-129	128-129	128-129
Hardness, Shore D	D 2240	65-66	65-66	65-66	65-66	65-66

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