



FACT SHEET

INHANCE[®] HD-1000 Series Particles.

Product Description: INHANCE HD-1000 Series Polyethylene Particles are surface-activated High Density Polyethylene (HDPE)[†] in particle or powder form. Surface activation makes the particles easy to disperse, and creates superior adhesion between the particles and the surrounding polymer. INHANCE HD polyethylene is currently available in the following particle sizes:

<u>Grade</u>	<u>Avg. Size (By wt)</u>	<u>Finer than (By wt)</u>
HD-1800	20 Microns (μ)	53 Microns (μ)
HD-1035	300 Microns (μ)	710 Microns (μ)

Applications: Add INHANCE HD polyethylene to urethanes, epoxies, polyesters, and other polymers to create composites that capture the unique benefits of HDPE. These benefits include excellent abrasion resistance, reduced coefficient of friction, enhanced tear strength and improved moisture barrier. INHANCE HD polyethylene can be used in many applications including molded parts, adhesives, paints, and coatings. It can be used as profile additive that tenaciously bonds to the matrix polymer. INHANCE HD polyethylene is easily dispersed in water-based, solvent, and 100% solids coatings of all types. Typical incorporation levels are in the range of 5% - 40%.

Physical Characteristics: INHANCE HD polyethylene is a free flowing white powder. It is derived from virgin HDPE resin, and has the following general properties:

- Surface Energy: 55+ dynes/cm (water wettable)
- Specific Gravity: 0.93-0.95
- Bulk Density: 26-33 lb/ft³ (0.416 – 0.528 g/cc)

	<u>HD-1800</u>	<u>HD-1035</u>
Molecular weight	100,000	100,000
Melt index	10 g/10 min	5 g/10min
Particle morphology	smooth spheres	irregular

Standard Packaging:

- 50 lb. cardboard box with polybag insert
- 200 lb. fiber drum with polybag insert
- Call Sales for other sizes

[†]May contain up to 1.0% parting and neutralizing agents.