

## Inhance Fluoro-Seal INHANCE<sup>®</sup> UH-1045 Ultra High Molecular Weight Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), UHMW PE Ultra High Molecular Weight

### Material Notes:

**Product Description:** INHANCE UH-1000 series particles are surface-activated Ultra High Molecular Weight Polyethylene (UHMWPE) in powder form. Surface activation makes the particles easy to disperse, and creates superior adhesion between the particles and the surrounding polymer.

**Applications:** Add INHANCE UH-1000 series particles to polyurethanes, epoxies, rubber, and other polymers to create composites that capture the unique benefits of UHMWPE without the processing difficulties posed by virgin UHMWPE. These benefits include superior abrasion resistance, reduced coefficient of friction, enhanced work of fracture and improved moisture barrier. Numerous industrial parts, coatings, and other wear surfaces are now being made with these surface-activated particles. Typical incorporation levels are in the range of 10%-30% for cast parts and 5%-10% for coatings.

Information provided by Inhance/Fluoro-Seal, Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_inhance-Fluoro-Seal-INHANCE-UH-1045-Ultra-High-Molecular-Weight-Polyethylene.php](http://www.lookpolymers.com/polymer_inhance-Fluoro-Seal-INHANCE-UH-1045-Ultra-High-Molecular-Weight-Polyethylene.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.930 - 0.940 g/cc	0.930 - 0.940 g/cc	
Bulk Density	0.320 - 0.500 g/cc	0.0116 - 0.0181 lb/in <sup>3</sup>	
Particle Size	300 Åµm	300 Åµm	Average Size
	710 Åµm	710 Åµm	Finer than
Molecular Weight	3.00e+6 - 5.00e+6 g/mol	3.00e+6 - 5.00e+6 g/mol	
Surface Tension	55 dynes/cm	55 dynes/cm	water wettable

## Contact Songhan Plastic Technology Co.,Ltd.

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