

## MPP-123AL

A highly engineered LDPE/aluminum oxide nanocomposite for unsurpassed scratch and scuff resistance

### Features and Benefits

- Maximum scratch and scuff resistance for anti-slip surfaces
- LDPE composite reinforced with 300 nm aluminum oxide nanoparticles (Mohs Hardness 9)
- Provides excellent antiblocking properties
- Does not lower COF like high density polyethylene grades
- Composite wax/aluminum oxide particle is less abrasive on processing equipment compared to free aluminum oxide
- Effective replacement for PTFE additives

### Composition

LDPE/aluminum oxide

### Recommended Addition Levels

0.5-1.5% (on total formula weight)

### Systems and Applications

Water based and solvent based coatings and inks. Industrial coatings (including plastic, metal and masonry); hot melt adhesives; powdered metals;

### Typical Properties\*

	<u>MPP-123AL</u>
<b>Melting Point ° C</b>	110 - 113
<b>Density @ 25 ° C (g/cc)</b>	0.97
<b>NPIRI Grind</b>	4.0 - 6.0
<b>Maximum Particle Size (µm)</b>	31.00
<b>Mean Particle Size (µm)</b>	9.5 - 12.5

This product is also available as a water based wax dispersion - Microspersion 123AL-40

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