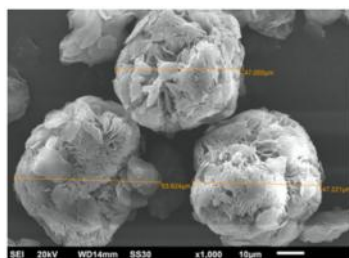


Polyethylene wax catalyst

Novel catalysts for production of tailored polyethylene waxes used as additives in the ink & coating industry.

Applications: Polymers, Catalysts, Polyethylene, Waxes, Inks, Coatings



Metalocene Polymerized PE waxes

- Polymerization technology
- Product customization
 - Mw 500-20,000 g/mole
 - MWD 2-4
 - Viscosity 10-25,000 cP
 - Density 0.91-0.98

Features

Polymerised metallocene polyethylene waxes

Controllable molecular weight and narrow molecular weight distribution

High crystallinity and melting point

Benefits

Offer a wide range of benefits in printing and coating applications; Incorporated to specifically enhance performance, including surface modification, improved dispersion, increased scratch resistance, and texture effects

Performance characteristics are tuneable to meet the requirements of individual applications; Lower molecular weight waxes exhibit enhanced slip and rub resistance

Higher molecular weight waxes provide a significant improvement in scratch resistance and film integrity; Narrow molecular weight distribution results in more predictable and consistent performance outcomes

Features	Benefits
Uniform particle size distribution	Enhanced blocking resistance and hardness provide increased resistance to rubbing and scratching
Controllable density of polymerized waxes	Optimises performance through effective dispersion and consistent film formation
	Desirable pigment/additive dispersion and uniformity within ink/coating; Promotes colour strength consistency, preventing settling or agglomeration of additive

Patented and Available for

- Co-development
- Consulting
- Licensing

To find out more, contact enquiries@innovation.ox.ac.uk and quote the project number.

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