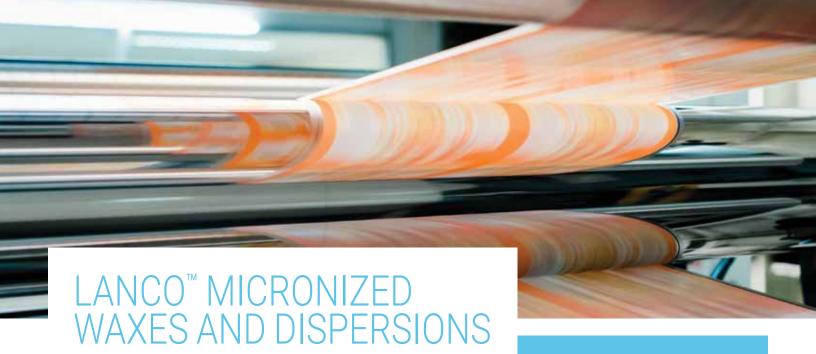


WAX ADDITIVES FOR PACKAGING INKS

Lubrizol

Performance Coatings



Lanco[™] Surface Modifiers provide surface modifying solutions for the ever-changing regulatory landscape.

Are you looking to eliminate PTFE in your ink and packaging solutions but need to maintain performance? Lubrizol has developed formulations using grades of PTFE that are compliant with the EU legislation enabling inks with the same protection and aesthetic properties previously attained. Lubrizol's technical team has also focused on development of PTFE-Free* formulations to deliver similar properties to PTFE-containing wax additives. PTFE-Free technologies are available in micronized and dispersed forms.



Value Driven Best in Class Performance

Lubrizol maintains an optimized product offering designed to balance value and performance – a complete line of wax additives to meet diverse application requirements. These include polyethylene, amide, polypropylene, and a newly available PTFE line of products specifically targeted toward packaging ink applications. These novel additives enable advanced surface protection such as rub and abrasion resistance, anti-blocking and COF reduction along with cost savings that are required with many packaging products.

Sustainability Solutions

In addition to PTFE-Free solutions, Lubrizol offers a bio-based product range to meet current and future sustainability objectives for packaging inks. Perfect for packaging applications that require food grade compliance, our bio-based offerings provide performance while being environmentally conscious. These include amide, carnauba and other natural waxes that can be tailored to meet specific application requirements.

*Not intentionally added to the composition of this product.

Micronized								
Product Name	Polymer Type	Water- Based	Solvent- Based	Radiation Cured	COF Reduction (SLIP)	Rub & Abrasion Resistance	Matting	Additional Benefits
Lanco™ 1380 F	Modified Polypropylene Wax	•	•	•	0	•	0	
Lanco™ 1390 F	Modified Polypropylene Wax	•	•	•		•	•	Antislip, good stablity in water based systems.
Lanco™ 1410 LF	Modified Polyethylene Wax	•	•	0	0	•	0	Soft feel.
Lanco™ 1510 EF	Modified Polyolefin Wax	0	•	•	•	•		Good alternative to PTFE based waxes.
Lanco™ 1561 LF	Modified Polyolefin Wax	•			0	•	0	Good for water based systems due to surface polarity.
Lanco™ 1588 SF	Polyolefin Wax	0	•	•	•	•		Finer particle size than Lanco™ SM 2005.
Lanco™ 1794	PTFE		•	•	•	•		Premium PTFE for use in high quality inks systems.
Lanco™ 2510 SF	Inorganically Modified Wax	0	•	•	•	•		Good alternative to PTFE based waxes.
Lanco™ 2520 SF & EF	Inorganically Modified Wax	0	•	•	•	•		Good alternative to PTFE based waxes.
Lanco™ 2530 EF	Organically Modified Wax Compound	0	•	•	•	•		Good alternative to PTFE based waxes.
Lanco™ 2540 SF & EF	Organically Modified Wax Compound	0	•	•	•	•		Good alternative to PTFE based waxes.
Lanco™ 2541 SF	Organically Modified Wax Compound	0	•	•	•	•		Good alternative to PTFE based waxes.
Lanco™ PP 1362 D & SF	Modified Polypropylene Wax	•	•	•	•	•		
Lanco™ SM 2001 C	PTFE Modified Polyolefin Wax	0	•	•	•	•	0	
Lanco™ SM 2005	Polyolefin Wax	0	•	•	0	0	0	
Lanco™ TF 1788 C	PTFE Modified Polyolefin Wax	0	•	•	•	•		Finer particle size than Lanco™ SM 2001 C.
Lanco™ TF 1780 C	PTFE Modified Polyethylene Wax	•	•	•	•	•		Higher PTFE content than Lanco™ TF 1788 C.

Dispersions								
Product Name	Polymer Type	Water- Based	Solvent- Based	COF Reduction (SLIP)	Rub & Abrasion Resistance	Matting	Additional Benefits	
Lanco™ Glidd 6068	Oxidized Polyethylene Wax	•		0	•	0	Surface hardness.	
Lanco™ Glidd 6148	Polyolefin Wax	•		•	•	0	High solids.	
Lanco™ Glidd 9530 C	PTFE Modified Polyolefin Wax	•		•	•			
Liquitron™ 809	Polyethylene Wax		•	0	•	0		

Emulsions						
Product Name	Polymer Type	Water-Based	COF Reduction (SLIP)	Rub & Abrasion Resistance	Gloss Retention	Additional Benefits
Aquaslip™ 677	Modified Paraffin Wax	•	0	0	•	Water beading.
Aquaslip™ 952	Carnauba Wax	•	•	•	•	
Liquilube™ 404 E**	High Density Polyethylene Wax	•	•	•	•	
Liquilube™ 405 E**	Polyolefin Wax	•	0	•	•	

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Lubrizol do Brasil Aditivos Ltda Avenida Nove de Julho, 3653 Jardim Paulista Sao Paulo – SP 01407-000 +55.11.4097.0250 Lubrizol Performance Coatings is a market-driven innovator of specialty chemicals for coatings, inks and composites. Our portfolio of resin, binder, dispersant, wax additive and specialty additive technologies solves challenges across a wide range of markets and applications. Formulators choose Lubrizol to benefit from our innovative technologies, customer collaboration and global reliability. More than just a supplier, we are a valued partner with extensive experience in surface protection, dispersion, adhesion and barrier properties. We work closely with customers to enhance the performance, productivity and sustainability benefits of their products and drive new opportunities for market success.

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