

LANCO™ TF 1780 EF

PTFE Modified Polyethylene Wax – Micronized and Classified

PERFORMANCE COATINGS

PRODUCT DESCRIPTION

Lanco TF 1780 EF provides excellent slip and abrasion resistance in coatings, due to its extremely low coefficient of friction. Based on a combination of PTFE and polyethylene wax, it can be used in solvent-borne and powder coatings. Due to its excellent surface properties and compliance with FDA regulations the product is especially suited to can and coil coatings.

FEATURES/BENEFITS

- Enhanced scratch resistance and slip
- Improved metal mark resistance
- Increased resistance to scuffing
- Improved abrasion resistance
- Improved anti-blocking properties
- Excellent water-repelling properties
- Aids in dirt removal from coated surfaces

PHYSICAL CHARACTERISTICS*

Appearance	Free-flowing white powder
Chemical type	PTFE / polyethylene wax
Particle Size, Median Dv50 µm	≤5
Dv90 µm	≤10
Density g/cm ³ @ 25°C (77°F)	1.07
Wax Melting point PE (°C)(°F)	102 (216)
Acid number (mg KOH/g)	<1
Hardness	2

* Property values represent typical results only and are not to be considered specifications.

TYPICAL APPLICATIONS

Lanco TF 1780 EF is useful in a wide range of applications including:

- Can and coil coatings
- Foil coatings
- Powder coatings

Based on:

- Acrylics
- Polyesters
- Alkyds
- Nitrocellulose
- PVC
- 2K epoxies
- Polyurethanes (2K, moisture cure and oil modified)

Incorporation

Lanco TF 1780 EF can be easily dispersed into liquid coatings using low speed mixers. Formulation variables such as viscosity, solvent package, resin type, selection of dispersant, pigment surface treatment, etc. can influence the ease of incorporation. High-energy dispersers may offer advantages in some applications. In powder coatings, Lanco TF 1780 EF should be incorporated into the premix prior to the extrusion stage.

Addition levels

To improve surface finish (slip, mar, scratch and abrasion resistance), the recommended addition level of Lanco TF 1780 EF is 0.5-2%, based on total formulation weight.

SHELF LIFE/STORAGE

For shelf life information please refer to the packaging label and the Certificate of Analysis. It provides the date of manufacturing (DOM) and a recommended re-test date (RRD). The RRD for Lanco TF 1780 EF is 1825 days after DOM.

REGULATORY STATUS

Please see the product's current safety datasheet, SDS, for regulatory information. You can request an SDS at www.lubrizolcoatings.com.

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