



Prowaxx™ 1451 FR

ExxonMobil Specialties , United States

Product Description

Prowaxx 1451 FR is a mid melt point, fully refined [FR] paraffin wax that is compositionally engineered to work well in numerous industrial applications such as corrugated boxes, paper cup and package coatings, wax blends and emulsions. The melt point facilitates efficient blending with polymer additives while also being high enough to ensure thermal stability of wax-coated surfaces. The melt point is also ideal for pillar candles [internal core]. It is a translucent crystalline material in the solid state and a water white, low viscosity, clear liquid when molten. It is derived from petroleum via a carefully controlled refining process yielding a food grade wax with low to no odor. Prowaxx 1451 FR is primarily comprised of straight chain normal paraffin hydrocarbons, which impart excellent gloss and water repellent properties.

The ExxonMobil fully refined waxes, such as Prowaxx 1451 FR, meet the requirements for the Food and Drug Administration (FDA) standards for indirect food contact substances and contain an oxidation inhibitor to improve stability.

Prowaxx 1451 FR is biodegradable under composting conditions according to ASTM D6400 using ASTM D5338.

ExxonMobil waxes are produced and controlled according to the ExxonMobil Product Quality Management System, EN ISO 9000 or equivalent standard.

Features and Benefits

*User must check compliance with applicable regulations

Features	Advantages and Potential Benefits
Mid and narrow melt point range	Blends easily with polymer additives for corrugated box applications Thermal stability
Low oil content	Minimal syneresis (oil bleed)
Primarily straight chain normal paraffin hydrocarbons	Outstanding water repellent properties Excellent gloss
Oxidation resistance	Superior shelf life enables improved product stability
Low to no odor	No cross-odor contamination with shipped goods
Colorless and translucent in solid state	Clear coating enables precise label representation in wax-coated applications
Food grade quality	Can be safely used as a component of nonfood articles in contact with food*

Applications

Prowaxx 1451 FR can be used in the following applications subject to applicable laws and regulations in each jurisdiction*:

- Corrugated boxes
- Paper cup and package coatings
- Wax blends and emulsions
- Pillar candles

- Wax melts
- Antiozonant wax for rubber and tires

* User must check compliance with applicable regulations

Regulations and Claims

This product is registered to the requirements of:

International Biodegradable Products Institute, Inc. BPI Compostable Certificate

This product meets or exceeds the requirements of:

FDA 21 CFR 178.3710

ASTM Biodegradable according to ASTM D6400-12 using ASTM D5338-11

Properties and Specifications

Property	Standard Method(a)	Min	Max
Oil Content, wt%	ASTM D721		0.75
Odor, Wax	ASTM D1833		1
Melting Point, °C (F)	ASTM D87	61.1(142)	63.9(147)
ASTM Saybolt D156 Color (ASTM D6045 Acceptable)	ASTM D6045	28	
Flash Point, Cleveland Open Cup, °C (F)	ASTM D92	210(410)	

Note 1: Products are certified on release to meet the values specified. Actual values may deviate within the established reproducibility of the test method specified.

Note 2: For purpose of determining conformance with specification, observed or calculated values shall be rounded off to the nearest unit in the last significant digit used in expressing the limiting value in accordance to the ASTM E 29 method

(a) In lieu of standard test method, alternate test methods may be used for the certification of a product property.

Health and safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.aspx>

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