



Prowaxx™ 1311 FR

ExxonMobil Specialties , Canada

Product Description

Prowaxx 1311 FR is a low melt point, fully refined [FR] paraffin wax that is compositionally engineered to work well as the paraffin component in plant-based candle formulations and in mottled container candle applications. The low oil content makes it well equipped at minimizing syneresis in container candle blends and allows for higher fragrance loads. 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 thus imparting excellent hot and cold fragrance throw in candles. Prowaxx 1311 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 1311 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 1311 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
Low and narrow melt point range	Enables faster melting to enhance fragrance throw
Low oil content	Minimal syneresis (oil bleed) Ideal oil content to achieve a mottled aesthetic
Controlled molecular composition	Enables consistent formulation with a range of other candle waxes Candle manufacturing flexibility (pouring and slurry)
Oxidation resistance	Superior shelf life enables improved product stability
Low to no odor	Excellent hot and cold fragrance throw
Colorless in solid state	Achieves true dye color representation
Food grade quality	Can be safely used as a component of nonfood articles in contact with food*

Applications

Prowaxx 1311 FR can be used in the following applications subject to applicable laws and regulations in each jurisdiction*:

- Candles
- Wax melts
- Wax blends and emulsions
- Paper cup and package coatings

- Corrugated boxes
- 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
Flash Point, Cleveland Open Cup, °C (F)	ASTM D92	204(400)	
Odor, Wax	ASTM D1833		1
ASTM Saybolt D156 Color (ASTM D6045 Acceptable)	ASTM D6045	28	
Oil Content, wt%	ASTM D721		0.5
Melting Point, °C (F)	ASTM D87	53.9(129)	55.6(132)

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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