

4045H Mottling wax blend for votive and pillar candles



4045H is a specialty blend of paraffin candle wax that promotes mottling in votive and pillar candles.



Typical Properties

Melting Point
(ASTM D-87) 138-143°F

Oil Content
(ASTM D-721) 0.5%

Penetration @ 25°C
(D-1321) 11-14 dmm

4045H Recommendations

Additives

Always use UV additives to prevent photodegradation. Use the fewest number of additives possible for mottling applications.

Color

Add color at 190 - 195 degrees F (some colors or dyes may require hotter temperature to eliminate sediment). Cool colored wax to 180 - 185 degrees F. Use color that is soluble in wax to prevent undissolved sediment in the wax. Sediment can block the wax flow in the wick and result in a poor burning candle. Liquids, powders, blocks and buttons are typically soluble in waxes. Do not use pigment dyes, as they will clog the capillary action of the wick and are only intended to be used in over dipping.

Fragrance

Add fragrance just before pouring to avoid fragrance loss. Don't exceed 5% fragrance loads in your candles. Higher fragrance levels can cause sweating. Each fragrance has its own unique characteristics that may perform differently in waxes. Typically, heavier fragrances will have an adverse effect on your candle's burn. We suggest test burning your fragrance, wax and color combination to ensure you are getting an acceptable burn performance. You may need to adjust fragrance levels to achieve a desirable trade-off between fragrance and burn performance.

Stearic and Vybar

Add up to 4% triple pressed stearic or 2% Vybar 343 when using fragrances with poor solubility or percentages higher than 5%. Stearic will minimize migration without greatly reducing the mottling. Higher percentages of stearic will impede mottling.

Pouring

We suggest for candles that are free of air bubbles, the filled containers should be pre-heated or placed in a heating vessel. Improvement of the container's side and adhesion will also be achieved by this process. Allow candles to cool to ambient temperature. Do not force cool. Forced cooling will effect the mottling. This wax will require a top off, so it is important to save enough wax from the original pour to maintain color consistency.

Wicking

Wick size will be affected by the finished candle's size and shape, as well as the types and amounts of color and fragrance used. The following wick series have all been found effective in 4045H: Flat Braided, LX, Square Braided and RRD Cotton series of wicks. Candlewic can make recommendations for specific candles, but we always recommend test burning.

Product Form

Bulk liquid and slabs.

FDA Information

4045H is manufactured in compliance with FDA regulations covered under 172.886 and 178.3710



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