



FRAG0681

RECIPE - PYRAMID PILLAR CANDLE ENCHANTED FOREST IN HPM

CANDLE SHACK

WHAT YOU WILL NEED

1x Pyramid - Pillar Candle Mould
7.5g of Enchanted Forest Fragrance Oil
242.5g of HPM Wax
1x LX10 Wick (250mm)
1x 2.5mm Diameter Metal Rod
1x Blu Tack
1x Lolly Stick (this will become your rod centring tool)

THE STEP-BY-STEP PROCESS

STEP 1

Using a ratchet punch or similar tool, pierce a 2.5mm hole in the centre of your lolly stick to turn it into a rod centring tool.

STEP 2

Insert the wick rod into the wick hole and seal it at the base of the pillar mould with Blu Tack.

STEP 3

Melt HPM wax at 75°C.

STEP 4

Once the wax is fully melted, add your fragrance and stir it for around 1 minute until the mixture is homogeneous.

STEP 5

Slowly pour it into your mould to your desired height.

STEP 6

Place the wick rod through the wick rod centring tool to keep the rod centred.

STEP 7

Leave your wax to solidify and when it has fully set, usually after around 2.5 hours, remove the wick rod centring tool and top up your candle to fill any dip that may have formed.

STEP 8

When the candle has fully set, around 5 hours after the initial pour, carefully remove the wicking rod and pop the candle out of the mould.

STEP 9

Thread the pre-waxed wick through the hole and push the sustainer into the base of the candle.

STEP 10

Melt the bottom of the candle on a hot baking tray to give a flat and level base.

STEP 11

Let the candle cure for 48 hours and trim the wick to 5mm before lighting it.

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Technical report on a test set of candles made in Candle Shack R&D department for sooting behaviour testing and fire safety testing

Date of Report: 04/10/23

Testing Period: 29/09/2023 - 04/10/2023

Sample Ref	PIL0009G	No. of Samples	3
Candle Name	250g Pyramid Pillar Candle, 3% in HPM		
Description	250g Mineral Blend Wax Fragranced Candle		
Fragrance	Enchanted Forest	Weight per candle	7.5g
Wax	HPM Wax	Weight per candle	242.5g
Colour	White	Height	230mm
Wick Type	LX10	Width	60mm
Wick Positioning	Centred	Depth	60mm
Surface Defects	None		

TECHNICAL REPORT

SPECIFICATION FOR FIRE SAFETY

To evaluate the performance of a test set of candles in a controlled environment against the requirements of BS EN 15493:2019 (Candles. Specification for fire safety)

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Part 2: SPECIFICATION FOR FIRE SAFETY

Test Property	Test Method	Test Requirements	Result
Stability	EN 15493:2019 4.1 (Visual Check)	Candle should not tip over when placed on a 10° incline plane	PASS
Secondary Ignition	EN 15493:2019 4.2 (Visual Check)	No secondary ignition shall occur for more than 10 s	PASS
Flame Height	EN 15493:2019 4.3 (Measurement)	The flame height for all candle types, except for tea lights, shall not exceed 75mm. The flame height for tea lights shall not exceed 30mm	PASS Maximum: 20 mm
Behaviour after extinguishing	EN 15493:2019 4.5.1 (Visual Check)	After extinguishing the candle shall not spontaneously re-light	PASS
	EN 15493:2019 4.5.2 (Measurement)	The wick shall not continue to glow or smoke for an average time of more than 30 s after extinguishing	PASS Average: 4 s

The room temperature during testing was 20±5°C

Wicks were trimmed to 5mm before lighting.

Candle Performance (240 ± 5 min cycles with >60min pause between cycles)

Sample Ref.	Gross Weight (g)	Total Wax Consumed (g)	*Total Burning Time (h)	Wax Consumption Rate (g/h)
PIL0009G-1	251.3	16.7	8.0	2.09
PIL0009G-2	250.7	6.9	4.0	1.72
PIL0009G-3	233.8	6.3	4.0	1.58

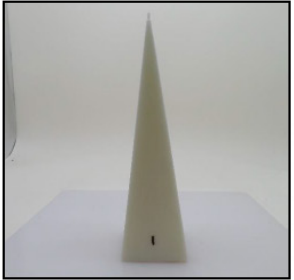
*If a candle self-extinguishes during the final burn cycle, the time of self-extinguishing is estimated.

Notes and Discussion:

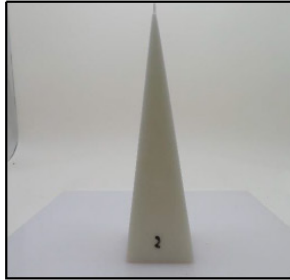
Candles were burned to a residual height of 15-25mm.

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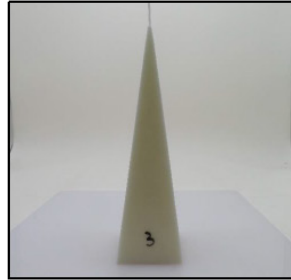
IMAGE GALLERY



Before Burn Front - Sample 1



Before Burn Front - Sample 2



Before Burn Front - Sample 3



End of Burn Front - Sample 1



End of Burn Front - Sample 2



End of Burn Front - Sample 3

END OF REPORT

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