



FRAG4156

RECIPE - 20CL

PASSION FRUIT & MANGO IN RCX

CANDLE SHACK

DESCRIPTION



INGREDIENTS FOR EACH CANDLE

1x 20cl glass jar
16.5g of Passion Fruit and Mango Fragrance Oil
148.8g of Candle Shack RCX Eco System Wax
1x CL10 Wick
1x 15mm Adhesive Wick Pad
1x WickClaw Tool for 20cl Glass

WAX

Candle Shack's EcoSystem Rapeseed & Coconut (RCX) is a natural wax blend. It was developed in Europe exclusively for Candle Shack and is made from rapeseed and coconut oil... and nothing else! It is free from paraffin, soy, palm, beeswax and synthetic additives.

VESSEL

Our Lotti 20cl glass is manufactured in Italy and meets the highest standards of clarity and tolerance.
Height: 84mm
Diameter: 70.5mm
Internal height: 66mm

WICK

Our innovative unbleached cotton and linen blend CL10 wick. Flat wick designed to minimise afterglow and smoking while maintaining rigidity. All wicks are 110mm long with a thin paraffin wax coating for stability.

USAGE RECOMMENDATIONS

- We recommend heating RCX to 60°C to melt.
- Add fragrance at 60°C and stir for 60 seconds.
- The mixture is ready to pour at 38°C into slightly warmed glasses.
- If the top is uneven once set, you can flash the surface with a heat gun, or do a top up pour to get a clean finish.
- Leave the candle to cure for 2+ days for best results.

DISCLAIMER

Each report shows test results for a set of candles made by Candle Shack's R&D team for that particular recipe. The test reports are not a guarantee that all candles made to the recipe will burn in exactly the same way. Variables such as ambient temperature, air flow, or the manufacturing process can affect the burning profile of a candle, so it is recommended that candle makers conduct their own testing to ensure that they are satisfied with the performance of their product.

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: 17/09/21

Testing Period: 01/09/21 to 08/09/21

Sample Ref	CS0297Z-1	No. of Samples	3
Candle Name	20cl Passionfruit & Mango, 10% in RCX		
Description	165g Rapeseed & Coconut Wax Fragranced Candle		
Fragrance	Passionfruit & Mango,	Weight per candle	16.5g
Wax	Candle Shack RCX Eco System Wax	Weight per candle	148.8g
Colour	White	Height	84mm
Wick Type	CL10	Top Diameter (ext)	70mm
Wick Positioning	Centred	Top Diameter (int)	65mm
Surface Defects	None	Base Diameter	67mm

TECHNICAL REPORT

Part 1: SPECIFICATION FOR SOOTING BEHAVIOUR

To evaluate the performance of a test set of candles in a controlled environment against the requirements of **BS EN 15426:2018** (Candles. Specification for sooting behaviour)

Part 2: 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)

Part 1: SPECIFICATION FOR SOOTING BEHAVIOUR

Requirement

When tested in accordance with clause 9 of EN 15426:2018, the average soot index per hour from three tests (samples) shall be less than 1.0/h

The room temperature during testing was $20 \pm 5^\circ\text{C}$

Wicks were trimmed to 5mm before lighting.

Cycles: 2 x 240 ± 5 min cycles with >60min pause between cycles)

Soot testing was performed in wire mesh cylinder Type 1 (Diameter: 230 ± 10 mm)

Sample Ref.	Total burn time t_m (h)	Hourly soot index $S_{i,h}$	Average soot index per hour $S_{i,h}$	Result
CS0301D-1	8.00	0.03	0.06	PASS
CS0301D-2	8.00	0.06		
CS0301D-3	8.00	0.09		

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Part 2: SPECIFICATION FOR FIRE SAFETY

Test Property	Test Method	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: 25 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: 7 s
Container Candles	EN 15493:2019 4.6 (Visual Check)	The container shall not crack or break at any time throughout the burning test	PASS

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)
CS0301D-1	392	156.9	40.7	3.86
CS0301D-2	390.6	153.2	40.7	3.77
CS0301D-3	387.7	156.7	40.7	3.85

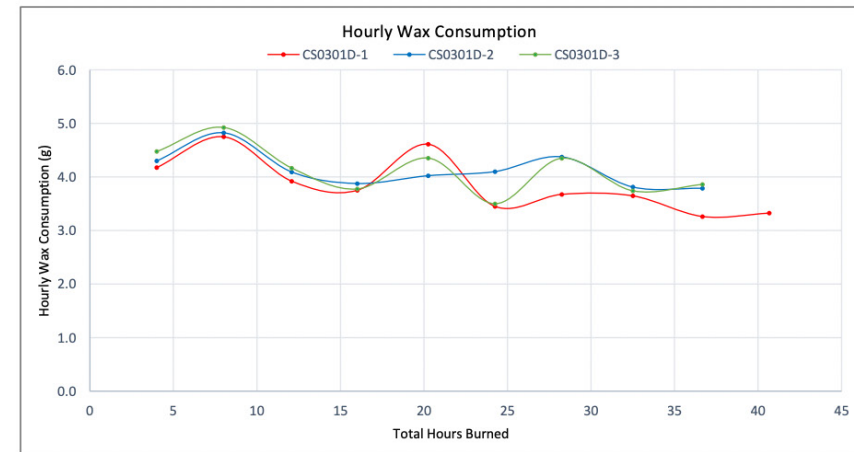
*If a candle self-extinguishes during the final burn cycle, the time of self-extinguishing is estimated

Notes and Discussion:

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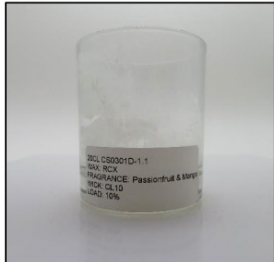
CHARTS



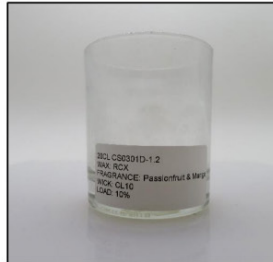
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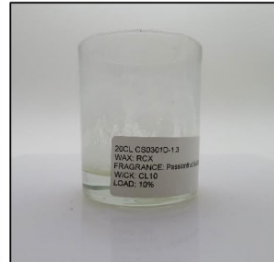
IMAGE GALLERY



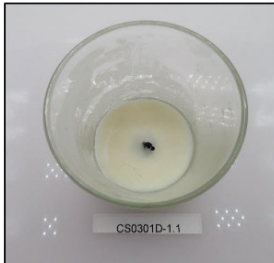
End of Burn Front- Sample 1



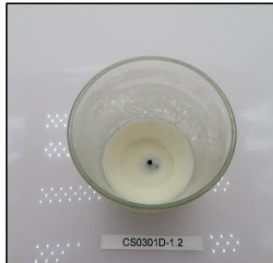
End of Burn Front- Sample 2



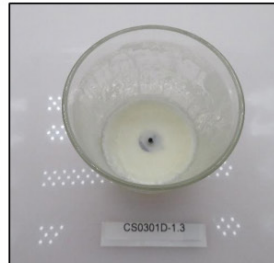
End of Burn Front- Sample 3



End of Burn Top - Sample 1



End of Burn Top - Sample 2



End of Burn Top - Sample 3

END OF REPORT

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