Shell Research Note

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SRN Report No.	SRN/SSRL/14/034
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Title	Foam flammability, California 117, measurement for Sakalakis, Greece
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Test method

Flammability
The flammability test was conducted in accordance California Technical Bulletin 117; Section A, Part 1 (vertical burning test) only, as the foam sample provided is insufficient for Section D.

Results:

Table 1: California 117 test results

California 117	Criteria	unit	
Section A			
Before heat ageing			
Mean char length	6 max.	in	1.03
Max. Char length	8 max.	in	1.34
Mean burn time	5 max.	sec.	0.49
Max. burn time	10 max.	sec.	2.31
After heat ageing			
Mean char length	6 max.	in	0.94
Max. char length	8 max.	in	1.18
Mean burn time	5 max.	sec.	1.69
Max. burn time	10 max.	sec.	4.58

If two or more specimens fail any of the criteria, the foam sample fails the CAL 117 flammability test.

Table 2-1: Results of CAL117A (Before heat ageing)

Sample	1	2	3	4	5	Mean	Max.
Char length, in	0.98	0.87	0.71	1.26	1.34	1.03	1.34
Burn time, sec	2.31	0.15	0	0	0	0.49	2.31

Table 2-2: Results of CAL117A (After heat ageing)

Sample	1	2	3	4	5	Mean	Max.
Char length, in	1.18	0.79	1.18	0.79	0.75	0.94	1.18
Burn time, sec	0	3.58	4.58	0	0	1.69	4.58

Conclusion

In summary, the sample **does meet** the criteria for California 117, Section A.