

SUMMARY OF TEST RESULTS

No.	Test Item	Specification	Judgement
1	Fire-Retardant Test	In-house	Complied

Conclusion :

Based on the tests done, the samples passed with results that achieved the specification.

TYPE OF TESTING : Fire-Retardant Test

DATE OF INSPECTION : 24th July 2023

Sample	Time	1	2	3	4	5
Flaming Time	1 st Test	0	0	0	0	0
	2 nd Test	0	0	0	0	0
Total Flaming Time		0				
Burn Up To Holding Clamp		X	X	X	X	X
Dripping Flaming Particle		X	X	X	X	X
Glowing Time		9	8	9	9	10
Judgement		PASS				
Class		V-0				

Sample	Time	6	7	8	9	10
Flaming Time	1 st Test	0	0	0	0	0
	2 nd Test	0	0	0	0	0
Total Flaming Time		0				
Burn Up To Holding Clamp		X	X	X	X	X
Dripping Flaming Particle		X	X	X	X	X
Glowing Time		9	8	8	9	9
Judgement		PASS				
Class		V-0				



Fig.1: Fire not burn up to holding clamp during Fire Retardant Test.

DOCUMENT NUMBER : Q/C-TM14

TITLE : VERTICAL BURNING TEST UL94 FOR FIRE RESISTANT FELT FOR CLASSIFYING MATERIAL 94V-0, 94V-1 AND 94V-2

c) Material Classed 94V-2
 Material classed 94V-2 shall;

- i) Not have any specimens that burn with flaming combustion for more than 30 seconds after either application of the test flame.
- ii) Not have a total flaming combustion time exceeding 250 seconds.
- iii) Not have any specimens that burn with flaming or glowing combustion up to the holding clamp.
- iv) Be permitted to have specimen that drips flaming particle that burn only briefly.
- v) Not have any specimen with glowing combustion that persists for more than 60 Seconds after the second removal of the test flame

5) CLASSIFICATION OF UL94 VERTICAL BURNING TEST

	A	B	C	D	E
Class	Flaming Time (either application of flame) (s)	Total Flaming Time (s)	Flaming / Glowing up to Holding Clamp	Dripping of Flaming Particle that Ignite the Cotton Awatch	Glowing Time after Second Application of Flame (s)
94V-0	< 10s	< 50s	Nil	Nil	< 30s
94V-1	10s – 30s	50s – 250s	Nil	Nil	30s – 60s
94V-2	10s – 30s	50s – 250s	Nil	Be permitted to have 4 specimens that drip flaming particles that burn only briefly.	30s – 60s

6) REFERENCE
 Underwriters Laboratories Inc – Testing for Public Safety UL 94

Diagram 1: The specification required for Fire Retardant Test