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Report purpose :

Fire behaviour, extinguishibility, according to UL94 std, for reference PRA 794.

Result :

Measured data	V-0 specifications according to UL94 std	PR A 794
The specimens may not burn with flaming combustion for more than X seconds after either application of the test flame.	X < 10 sec.	2 sec.
The total flaming combustion time may not exceed Y seconds for the 10 flame applications for each set of 5 specimens	Y < 50 sec.	11 sec.
The specimens burn with flaming or glowing combustion up to the holding clamp.	No	No
The specimens drop flaming particles that ignite the dry absorbent surgical cotton located 300 mm below the test specimen.	No	No
The specimens have glowing combustion that persists for more than 30 seconds after the second removal of the test flame.	No	No

Test Conclusion :

The material referenced PR 794, tested according to UL94 std, is V0 classified on a thickness of 4 mm

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Reference of tested material :

PR A 794

Standard followed / Test méthode :

UL94 / Vertical test

Batch numbers used and conditions used for the specimen making :

- PR A 794 polyol (SH194000), batch number : 454681
- PR A 794 Isocyanate (SH000401), batch number : 016531

Specimen's size: 125 x 10 x 4 mm

Post curing after polymerisation : 1h at 70°C + 1h at 100°C + 2h at 120°C + 48h at room temp. with 50% RH

Table of burning-test results:

specimens	First fire exposition					Second fire exposition				
	Thickness (mm)	Extinguishing after 10 sec. (t ₁) flame	The specimen burns with flaming or glowing combustion up to the holding clamp	The specimen drops flaming particles that ignite the dry absorbent surgical cotton.	Drops that doesn't set fire to the cotton under the test -bar	Extinguishing after 10 sec. (t ₂) flame	The specimen burns with flaming or glowing combustion up to the holding clamp	The specimen drops flaming particles that ignite the dry absorbent surgical cotton.	Drops that doesn't set fire to the cotton under the test -bar	The specimen has glowing combustion that persists for more than 30 seconds after the second removal of the test flame.
1	4	1	No	No	No	1	No	No	No	No
2	4	1	No	No	No	2	No	No	No	No
3	4	1	No	No	No	1	No	No	No	No
4	4	1	No	No	No	1	No	No	No	No
5	4	1	No	No	No	1	No	No	No	No
Total	5					6				
Total extinguish time after both flaming (t ₁ + t ₂) (s)						11				

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