

SBI Test Report

Laboratory name ALLIANZ TEKNIK
 Operator EMIN KARAS
 Filename C:\SBICALC\Data\Isil Muhendislik_Non Woven_1_04.10.2023.RW1
 Report identification Isil Muhendislik_Non Woven_Arge_1
 Product identification Isil Muhendislik_Non Woven_Arge_1

Test		Pre-test conditions	Specimen conditioning
Standard used	EN 13823:2010	Baseline duct temperature 295.90 K	Method Not conditioned
Date of test	04/10/2023	Ambient temperature 294.60 K	Time interval N/A
Date of report	04/10/2023	Ambient pressure 101.589 kPa	Mass 1 N/A
E'	17.2 MJ/m ³	Relative humidity 51%	Mass 2 N/A
Apparatus specifications		Baseline conditions	Temperature N/A
kt	0.873	Baseline ambient oxygen 20.660%	RH N/A
kp	1.24	Baseline oxygen 20.952%	
Duct diameter	0.315 m	Baseline carbon dioxide 0.0451%	
O2 calibration delay time	11 s	Baseline smoke 99.99%	
CO2 calibration delay time	13 s		

Specimen information

Thickness	Mounting method	5.2.2b) in EN 13823:2010
Density	Joints	none
Surface mass/area	Fixed to substrate?	Yes
Specimen number 1	Fixing method	screw
Date of arrival 02/10/2023	Substrate	Alcipan Levha
	Manufacturer	Isil Muhendislik
	Sponsor	Isil Muhendislik

Test validity criteria

Test drifts

	Initial	Final	Change
Oxygen	20.952%	20.879%	0.073%
CO2	0.045%	0.084%	0.039%
Smoke	99.99%	99.75%	0.002

Exposure time 1254 s

Synchronisation details

Duct temp. dropped by 2.5 K from baseline of 315.87 K at 303 s
 Oxygen rose by 0.05% from baseline of 20.688% at 300 s
 CO2 dropped by 0.02% from baseline of 0.200% at 303 s

Burner details

Auxiliary Burner HRR	29.271 kW
Auxiliary Burner HRR std. dev.	0.487 kW
Burner CO2/O2 ratio	0.590
Auxiliary Burner SPR	0.024 m ² /s
Auxiliary Burner SPR std. dev.	0.003 m ² /s
Burner response time	12 s

Other checks

Minimum duct flow	0.564 m ³ /s
Maximum duct flow	0.631 m ³ /s
No T/C failure	

Classification results

FIGRA(0.2)	50.3 W/s at 396 s
FIGRA(0.4)	30.4 W/s at 438 s
THR(600)	1.4 MJ
SMOGR	threshold not reached
TSP(600)	9.9 m ²

Classification observations

LFS to edge?	No
FDP flaming <= 10s?	No
FDP flaming > 10s?	No

Potential classification

Class	A2/B
Smoke production	s1
Flaming droplets/particles	d0

Recorded events

Surface flashes? No; Falling specimen parts? No; Smoke not entering hood? No
 Mutual fixing of backing board failed? No; Distortion/collapse of specimen? No

Pre-test comments

After-test comments

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Alternative smoke results

Smoke test filename	C:\SBICALC\SMOKE\23100401.RW1
Main burner SPR	0.033 m ² /s
Main burner SPR std. dev.	0.004 m ² /s

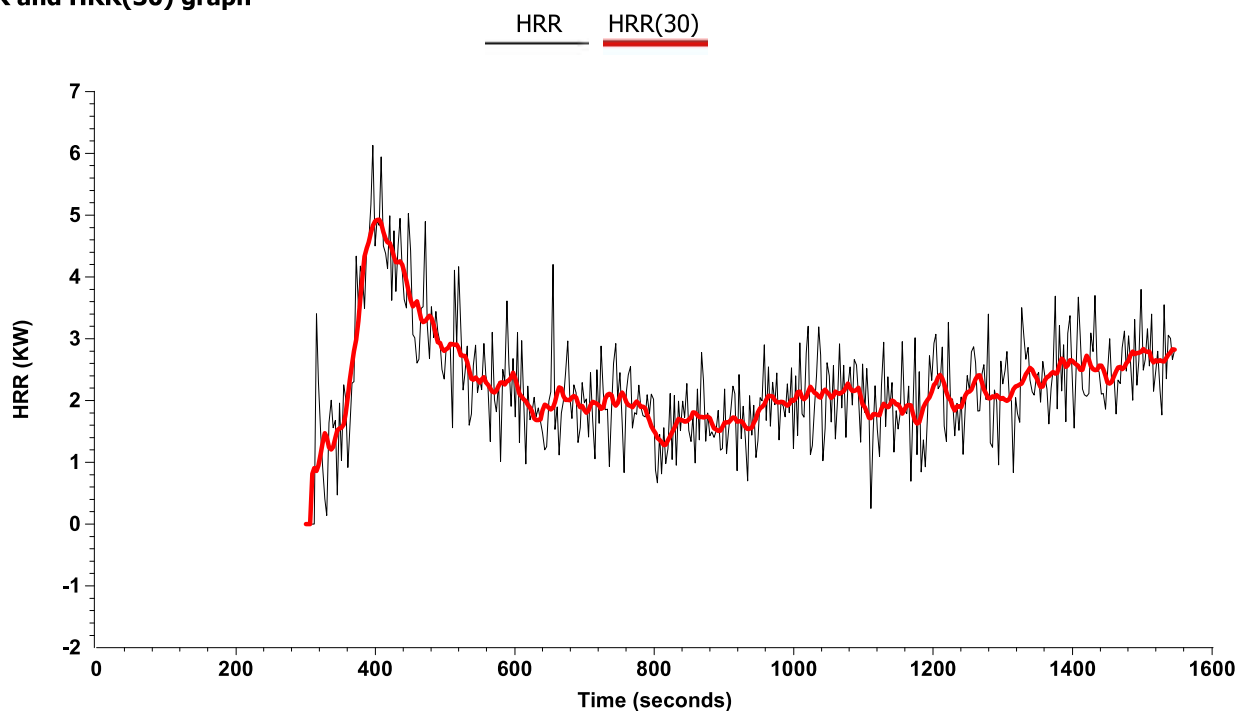
Alternative classification results

SMOGRA	threshold not reached
TSP(600)	4.8 m ²
Smoke production class	s1

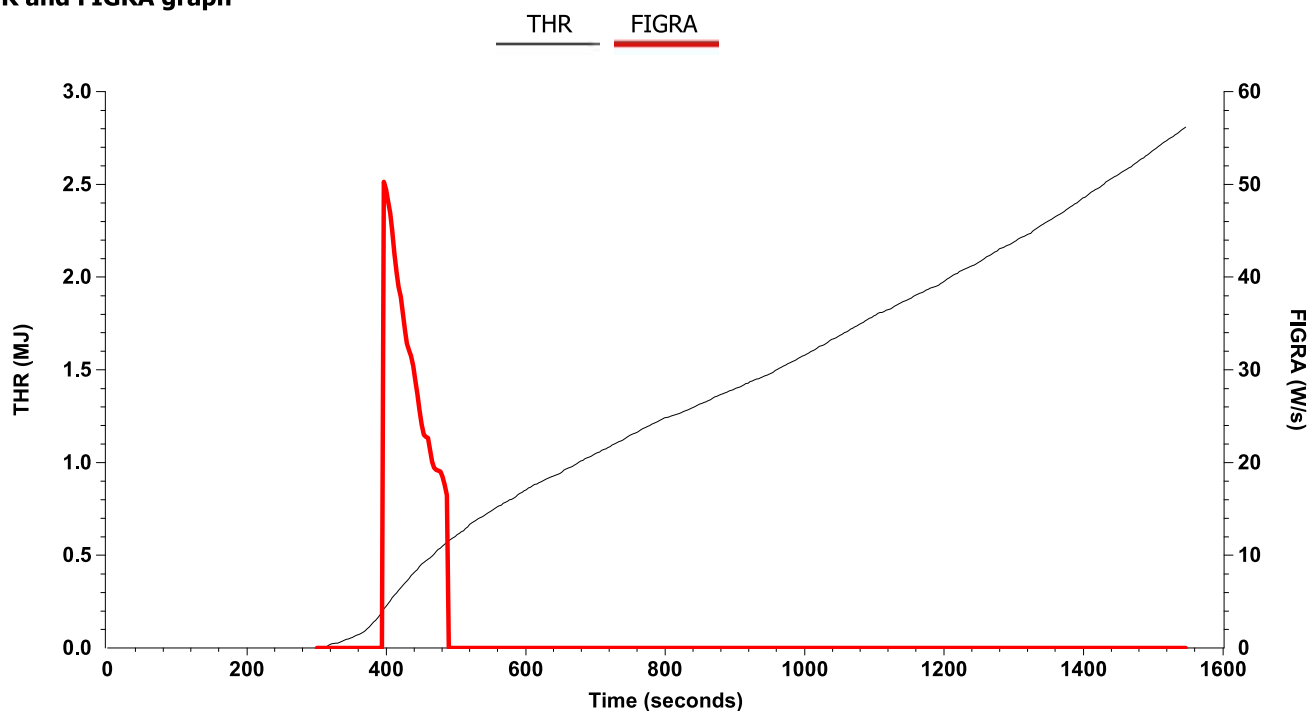
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HRR and HRR(30) graph



THR and FIGRA graph

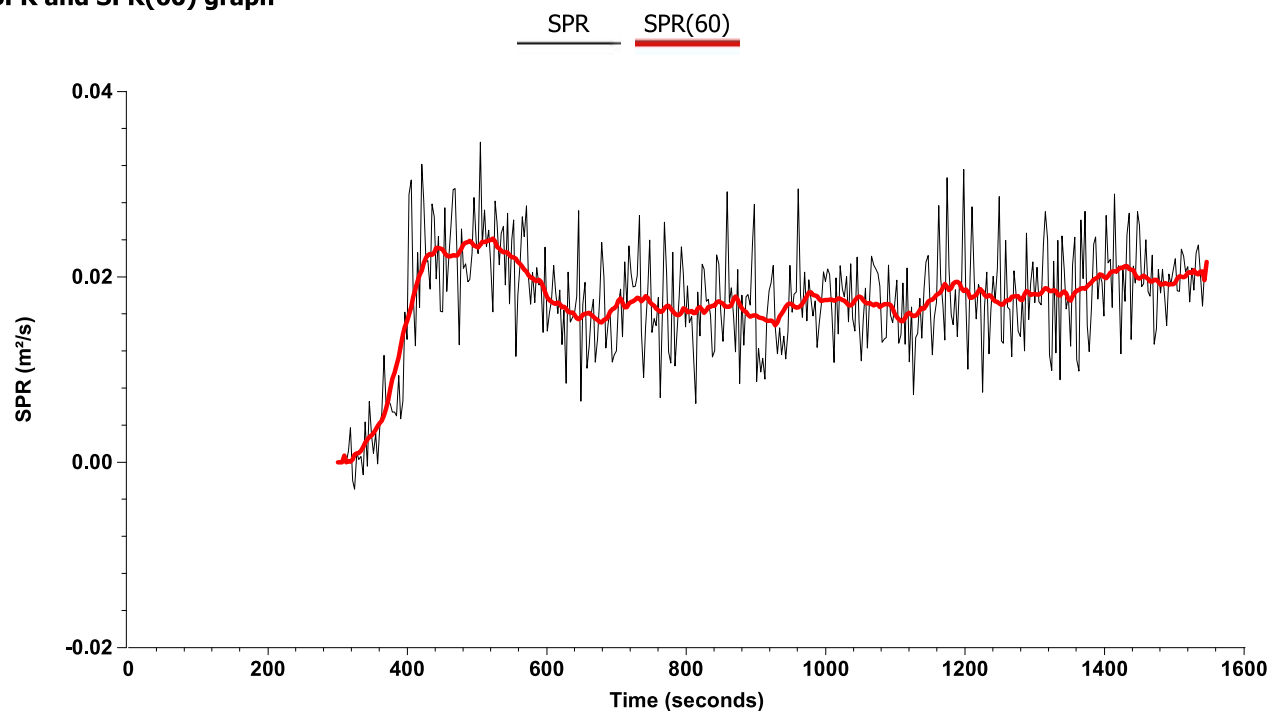


The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

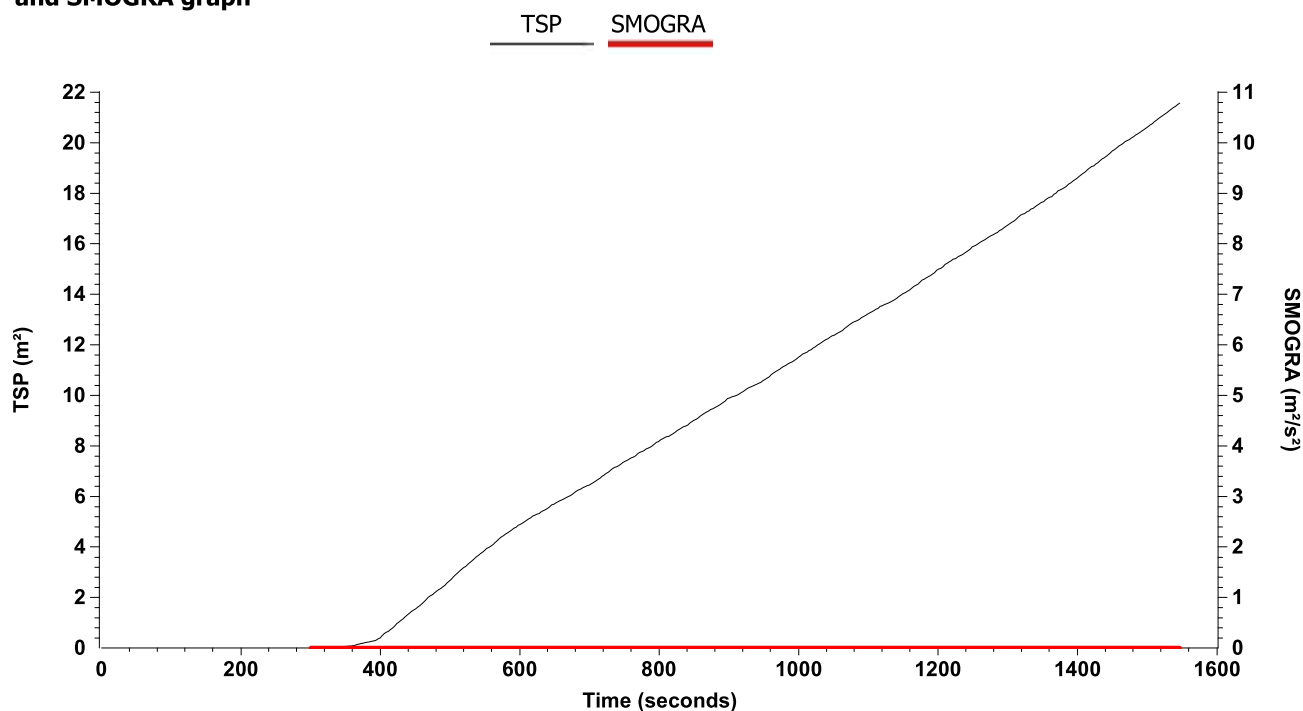
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SPR and SPR(60) graph



TSP and SMOGRA graph

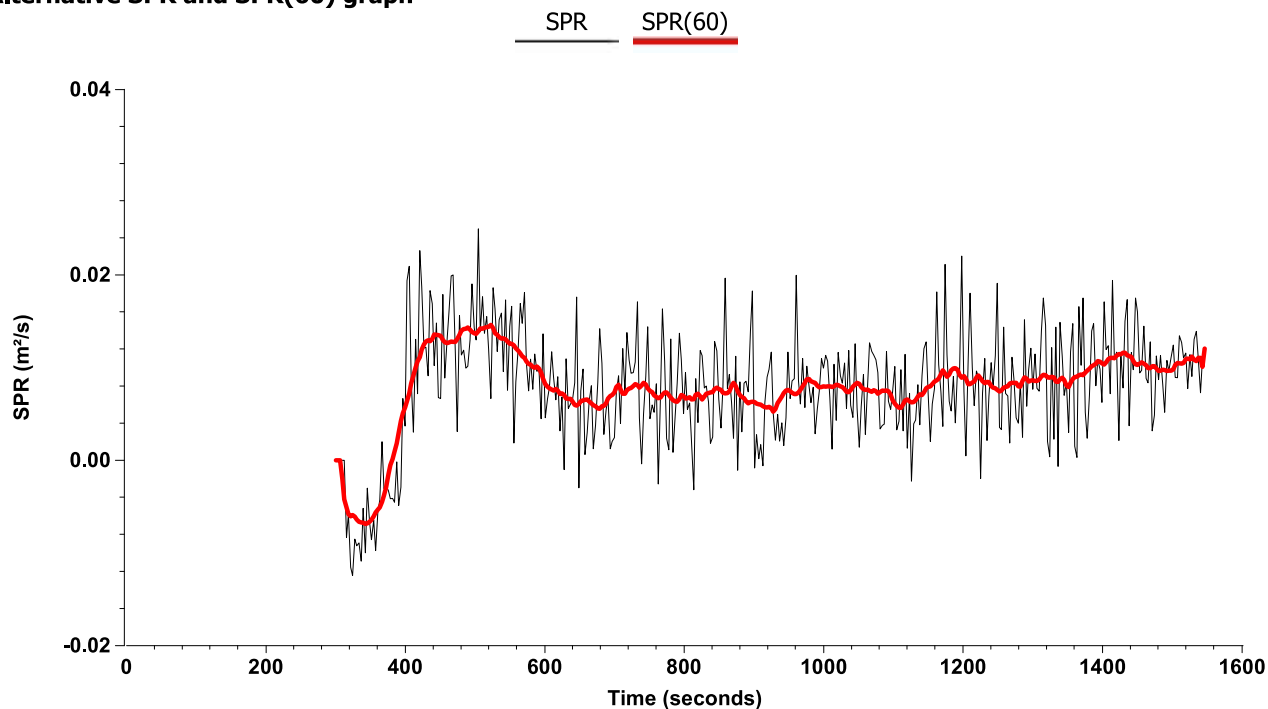


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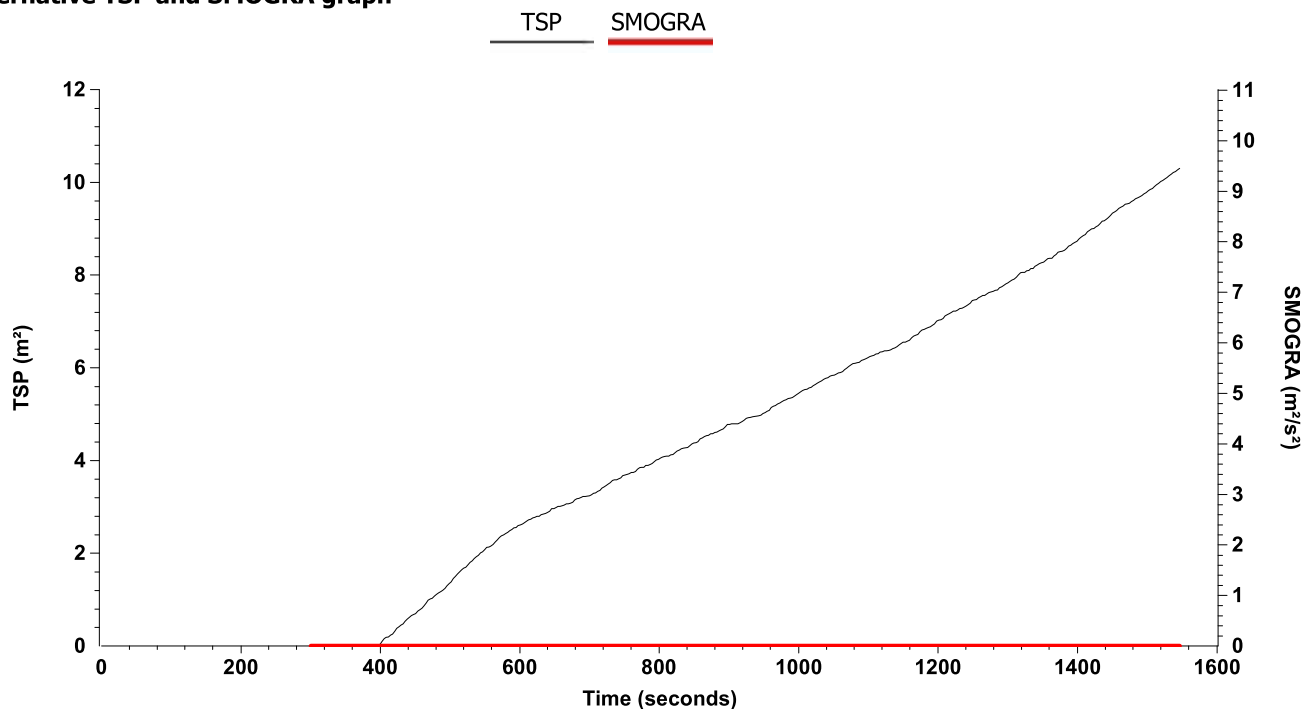
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Alternative SPR and SPR(60) graph



Alternative TSP and SMOGRA graph



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