

SBI Test Report

Laboratory name ALLIANZ TEKNIK
Operator EMIN KARAS
Filename C:\SBICALC\Data\Mabelsan_PVC Kopuk Levha_Arge_10.02.2025.RW1
Report identification Mabelsan_PVC Kopuk Levha_Arge
Product identification Mabelsan_PVC Kopuk Levha_Arge

Test		Pre-test conditions	Specimen conditioning
Standard used	EN 13823:2010	Baseline duct temperature 284.37 K	Method Not conditioned
Date of test	10/02/2025	Ambient temperature 284.25 K	Time interval N/A
Date of report	10/02/2025	Ambient pressure 102.117 kPa	Mass 1 N/A
E'	17.2 MJ/m ³	Relative humidity 52%	Mass 2 N/A
Apparatus specifications		Baseline conditions	Temperature N/A
kt	0.87	Baseline ambient oxygen 20.805%	RH N/A
kp	1.24	Baseline oxygen 20.946%	
Duct diameter	0.315 m	Baseline carbon dioxide 0.0453%	
O2 calibration delay time	9 s	Baseline smoke 100.18%	
CO2 calibration delay time	12 s		

Specimen information

Thickness	18 mm	Mounting method	5.2.2b) in EN 13823:2010
Density	50 kg/m ³	Joints	none
Surface mass/area	8 kg/m ²	Fixed to substrate?	Yes
Specimen number	1	Fixing method	none
Date of arrival	04/02/2025	Substrate	Alci Levha
		Manufacturer	Mabelsan Forex
		Sponsor	Mabelsan Forex

Test validity criteria

Test drifts

	Initial	Final	Change
Oxygen	20.946%	20.515%	0.431%
CO2	0.045%	0.344%	0.299%
Smoke	100.18%	67.82%	0.323

Exposure time 1257 s

Synchronisation details

Duct temp. dropped by 2.5 K from baseline of 303.98 K at 300 s
Oxygen rose by 0.05% from baseline of 20.696% at 300 s
CO2 dropped by 0.02% from baseline of 0.195% at 300 s

Burner details

Auxiliary Burner HRR	29.634 kW
Auxiliary Burner HRR std. dev.	0.574 kW
Burner CO2/O2 ratio	0.599
Auxiliary Burner SPR	0.033 m ² /s
Auxiliary Burner SPR std. dev.	0.005 m ² /s
Burner response time	12 s

Other checks

Minimum duct flow	0.585 m ³ /s
Maximum duct flow	0.686 m ³ /s
No T/C failure	

Classification results

FIGRA(0.2)	229.5 W/s at 417 s
FIGRA(0.4)	229.5 W/s at 417 s
THR(600)	19.5 MJ
SMOGRA	117.5 m ² /s ² at 405 s
TSP(600)	752.7 m ²

Classification observations

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

Potential classification

Class	D
Smoke production	s3
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\25021001.RW1
Main burner SPR	0.024 m ² /s
Main burner SPR std. dev.	0.002 m ² /s

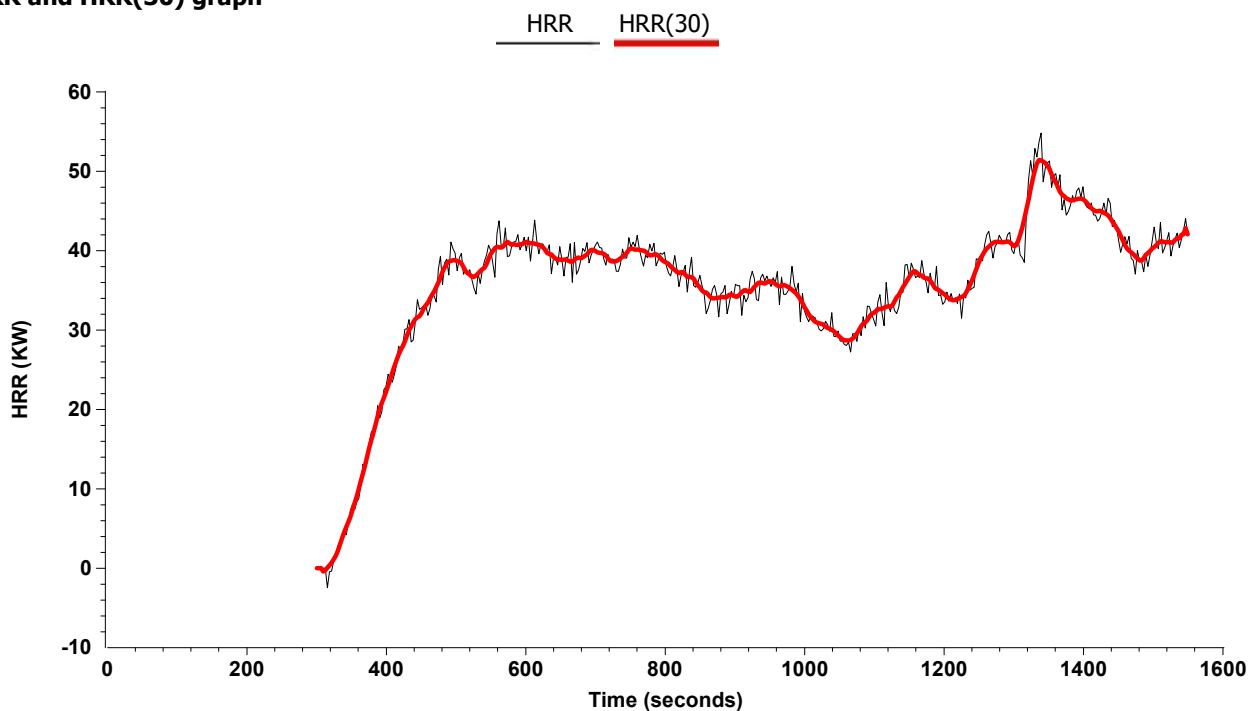
Alternative classification results

SMOGRA	118.3 m ² /s ² at 405 s
TSP(600)	757.8 m ²
Smoke production class	s3

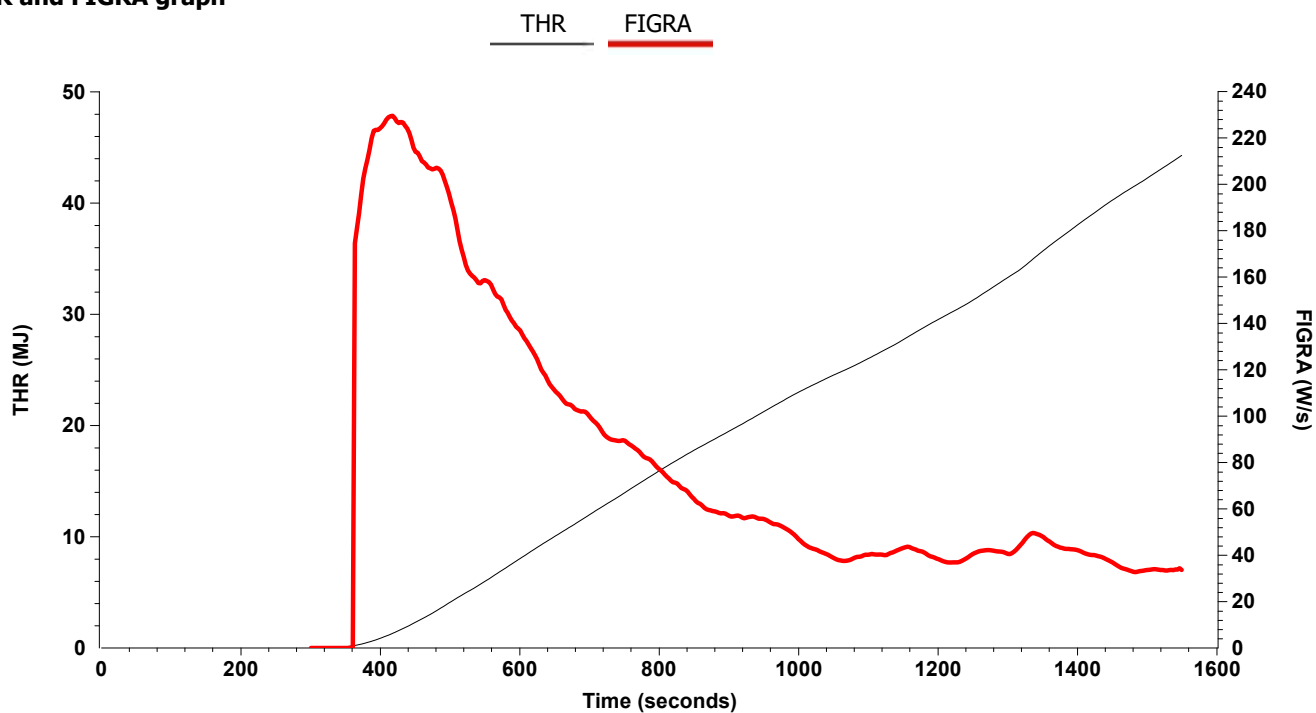
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HRR and HRR(30) graph



THR and FIGRA graph

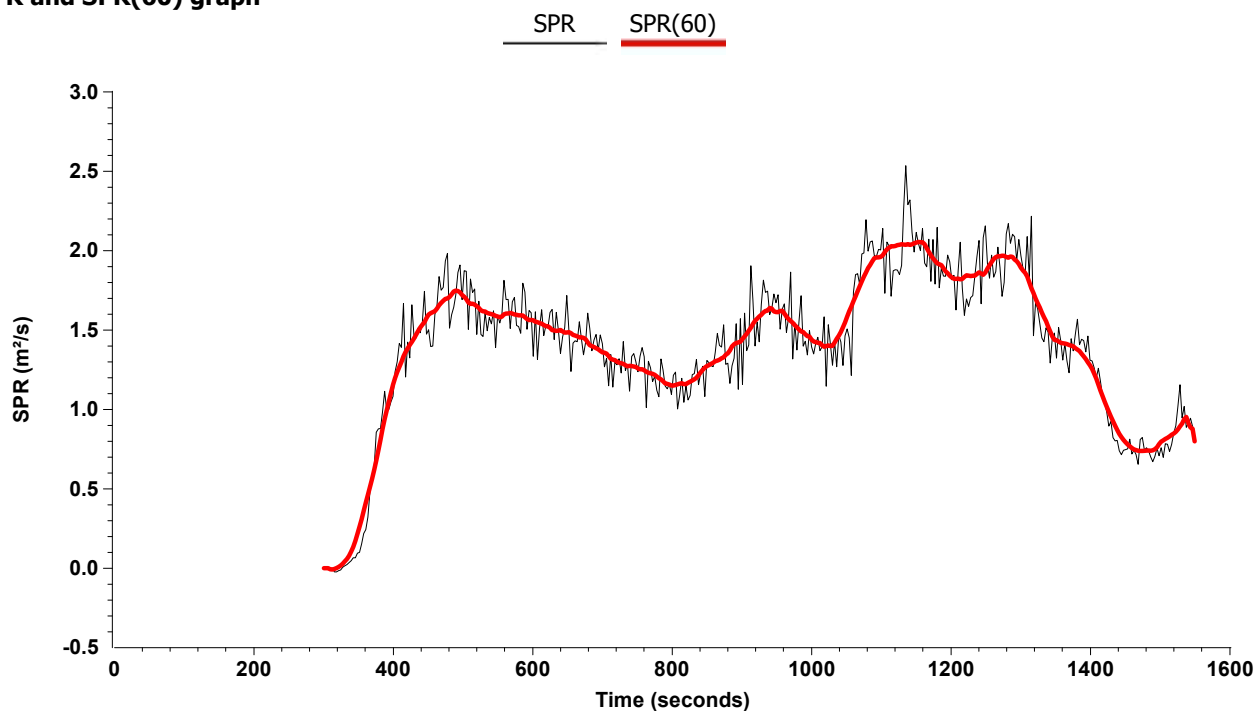


The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

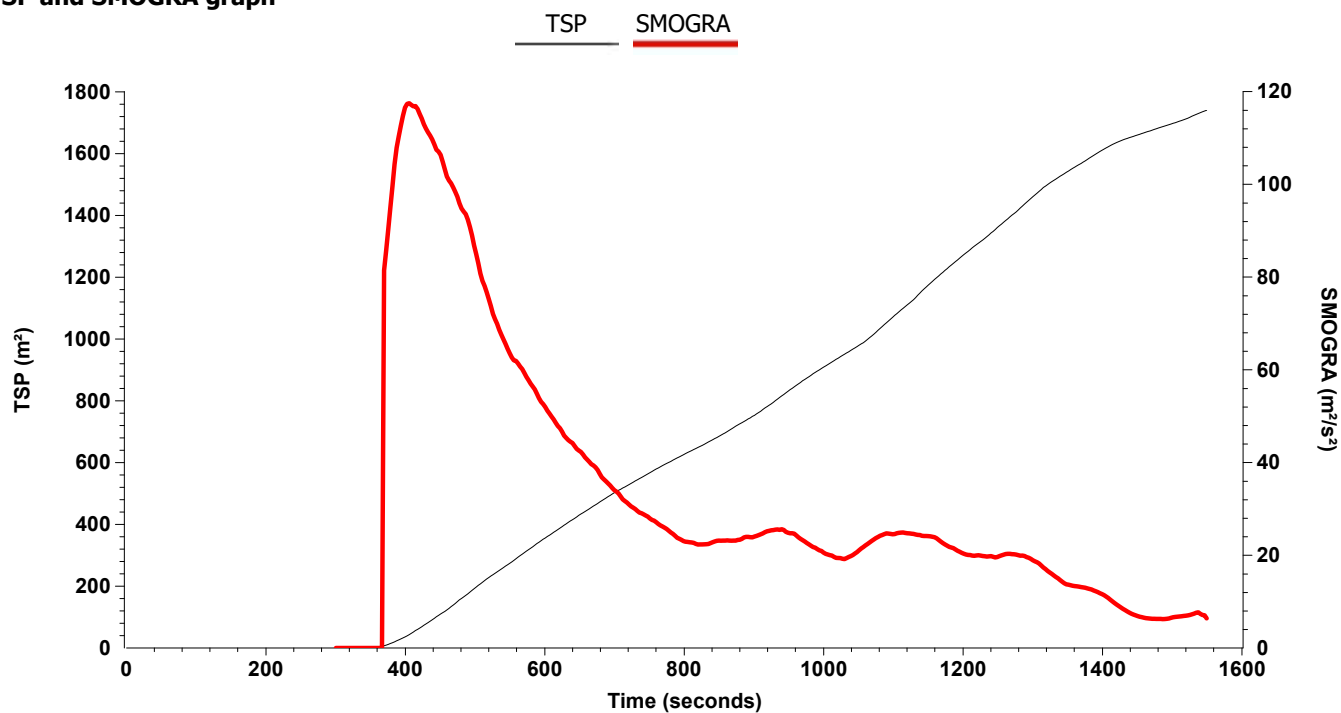
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SPR and SPR(60) graph



TSP and SMOGRA graph

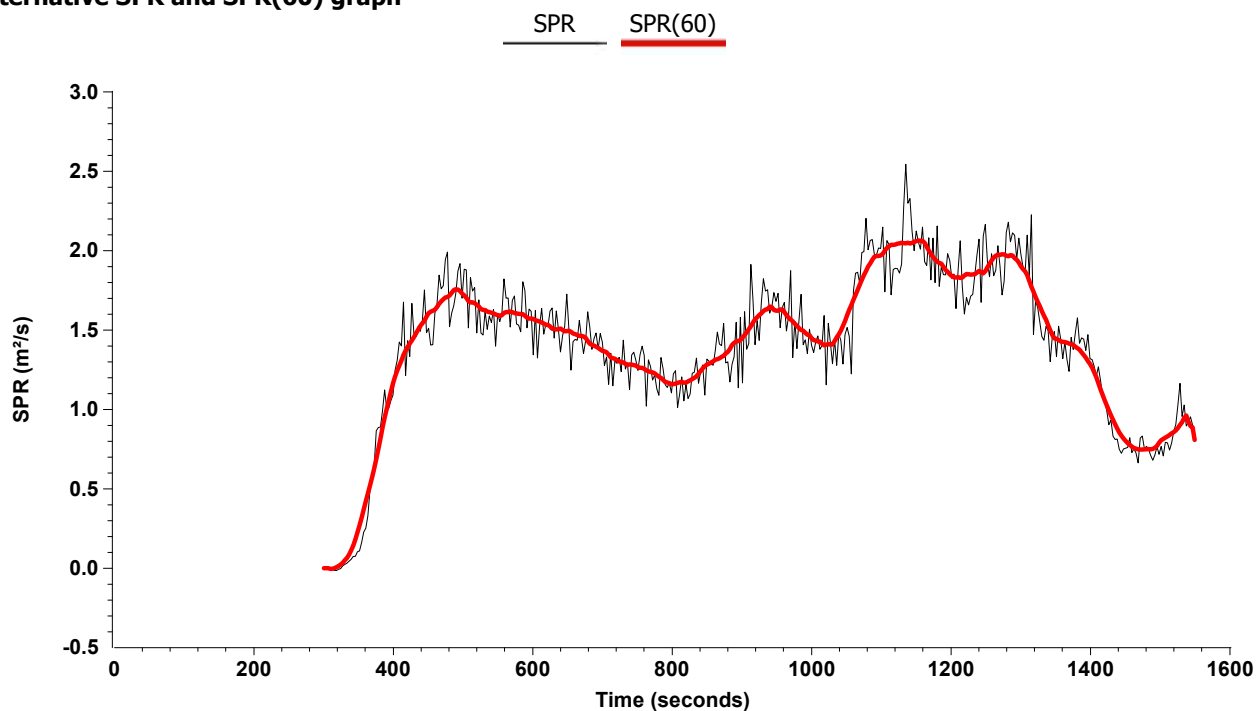


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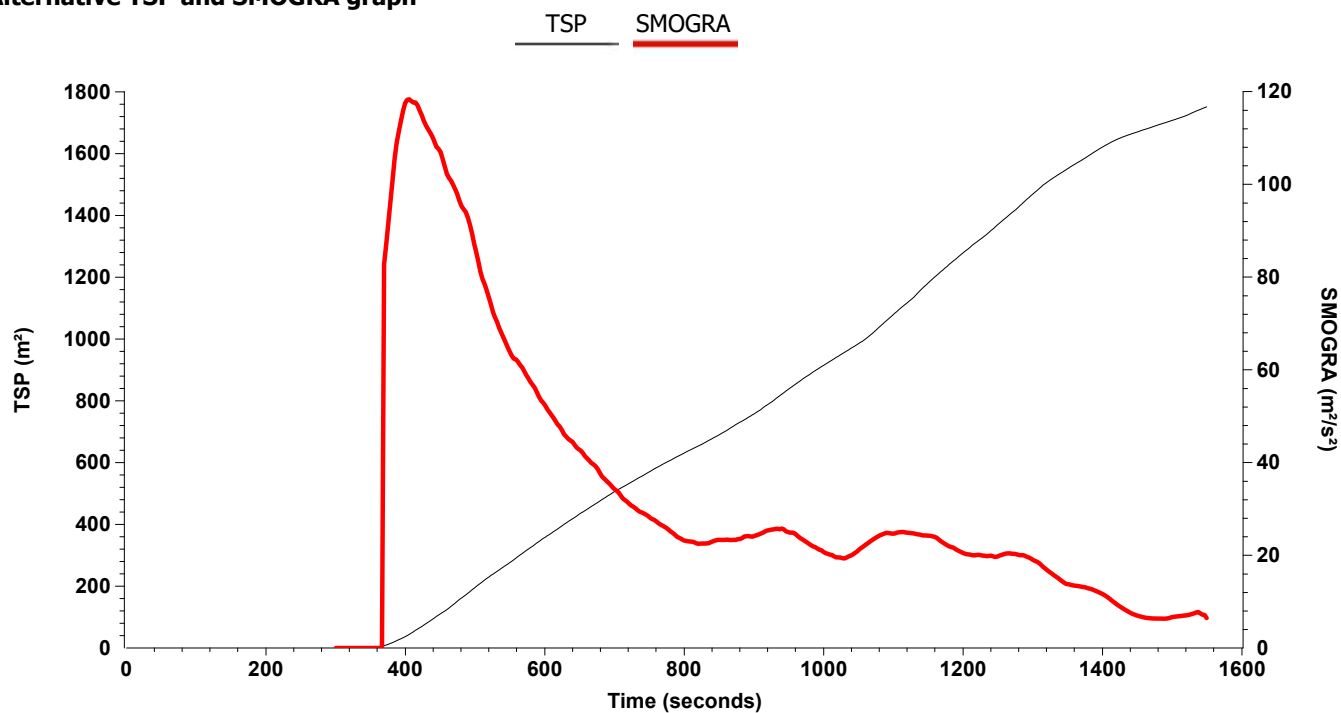
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Alternative SPR and SPR(60) graph



Alternative TSP and SMOGRA graph



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