SBI Test Report

Laboratory name MeKA Testing laboratory

Operator **Edgars Buksans**

Filename C:\SBICALC\Data\2550\2550-1.csv

Report identification 2550-1

Product identification Flame retardant varnish WP-710

Test Standard used EN 13823:2010 Date of test 27/09/2017

Date of report 27/09/2017 17.2 MJ/m³ F'

Apparatus specifications

kt 0.88 kp 1.08 Duct diameter 0.315 m O2 calibration delay time 12 s CO2 calibration delay time 9 s

Pre-test conditions

Baseline duct temperature 297.36 K Ambient temperature 296.59 K Ambient pressure 105.292 kPa Relative humidity 42%

Baseline conditions

Baseline ambient oxygen 20.698% Baseline oxygen 20.952% Baseline carbon dioxide 0.0441% Baseline smoke 100.02%

Specimen conditioning

Constant mass Method Time interval 24 hours Mass 1 2602 g 2600 g Mass 2 23°C **Temperature** RH 50%

Specimen information

Thickness 12 mm Density 680 kg/m3

Surface mass/area Specimen number

Date of arrival 13/09/2017 Mounting method

Joints none Fixed to substrate? Yes

Fixing method none Substrate wood particleboard

Manufacturer

Sponsor

WorthCoatings LLC

Test validity criteria Test drifts

	Initial	Final	Change
Oxygen	20.952%	20.956%	0.005%
CO2	0.044%	0.043%	0.001%
Smoke	100.02%	99.45%	0.006

Exposure time 1254 s

Synchronisation details

Duct temp. dropped by 2.5 K from baseline of 319.81 K at 303 s Oxygen rose by 0.05% from baseline of 20.691% at 303 s CO2 dropped by 0.02% from baseline of 0.201% at 303 s

Burner details

5.2.2b) in EN 13823:2010

29.959 kW Burner HRR Burner HRR std. dev. 0.698 kW Burner CO2/O2 ratio 0.602 **Burner SPR** 0.032 m²/s Burner SPR std. dev. 0.004 m²/s Burner response time 9 s

Other checks

Minimum duct flow 0.570 m3/s Maximum duct flow 0.667 m3/s

No T/C failure

Classification results

FIGRA(0.2) 41.5 W/s at 618 s FIGRA(0.4) 41.5 W/s at 618 s THR(600) 5.0 MJ

SMOGRA 3.8 m²/s² at 567 s

TSP(600) 44.0 m²

Classification observations No

LFS to edge? FDP flaming $\leq 10s$? No No

FDP flaming > 10s?

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 Flame retardant varnish aplied on substrate 3 coats with total consumption 420 g/m2 (wet)

After-test comments

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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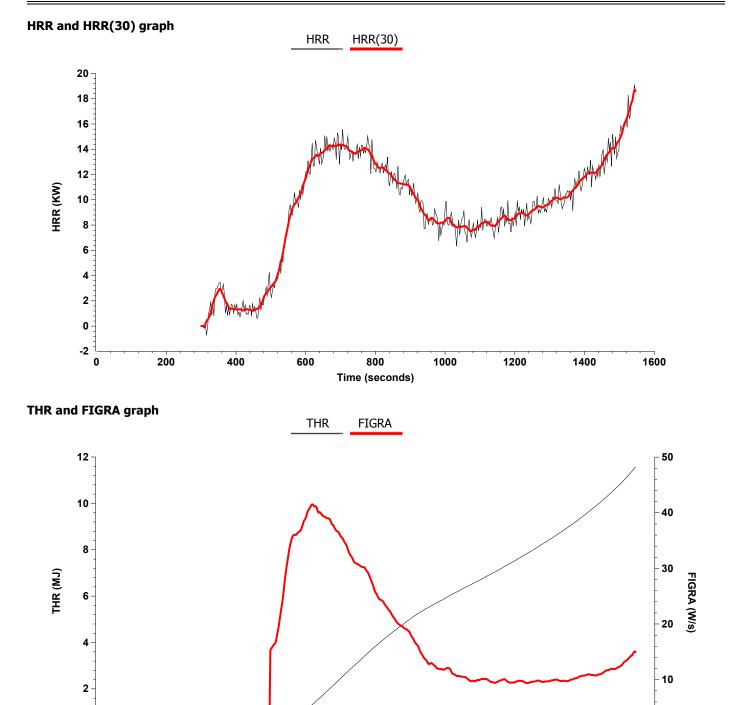
0

200

400

600

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800

Time (seconds)

1000

1200

1400

1600

SBI Test Report

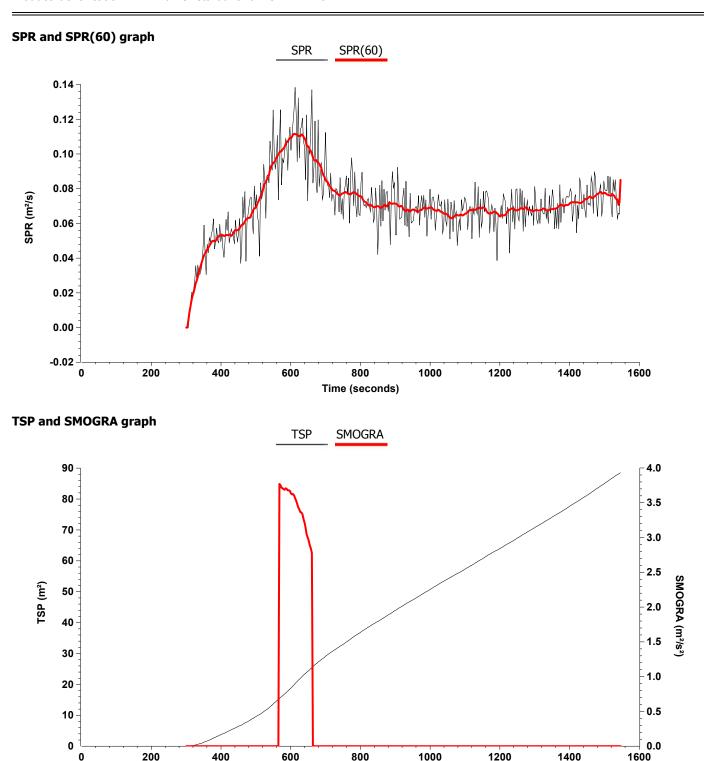
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Time (seconds)