

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing

A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031

P.O Box 240, North Melbourne, Victoria 3051

Phone (03) 9371 2400

Zenolite AS/NZS 3837 : 1998

Client : EGR Group
84 Evans Road
Salisbury QLD 4107

Test Number : 20-004315
Issue Date : 10/09/2020
Print Date : 22/09/2020

Sample Description

Clients Ref : "ZenoLite"

Rigid panel

Colour : Clear with white back

End Use : Splashbacks, In-fills in joinery, decorative features which are fixed to walling

Nominal Composition : 100% Acrylic

Nominal Mass per Unit Area/Density : 1.2g/cm³

Nominal Thickness : 4mm

AS/NZS 3837-1998

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested

10/09/2020

Face Tested

Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	136.2	204.6	156.0	165.6	kW/m ²
Average Specific extinction area	70.2	74.2	69.4	71.2	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen				
	1	2	3	Mean	
Irradiance	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	40	36	46	41	sec
Test duration	1037	669	928	878	sec
Peak heat release after ignition	713.1	696.0	691.6	700.2	kW/m ²
Average heat at 60 s	350.7	374.3	391.4	372.1	kW/m ²
Average heat at 180 s	538.4	555.3	551.5	548.4	kW/m ²
Average heat at 300 s	410.3	410.2	412.9	411.1	kW/m ²

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MICHAEL A. JACKSON B.Sc. (Hons)
MANAGING DIRECTOR

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Total heat released	136.2	128.9	137.5	134.2	MJ/m ²
Average effective heat of combustion	18.0	17.7	18.4	18.0	MJ/kg
Initial thickness	14	14	14	14.0	mm
Initial mass	107.2	107.0	106.2	106.8	g
Mass remaining	45.8	48.1	45.5	46.5	g
Mass percentage pyrolysed	57.2	55.1	57.2	56.5	%
Mass loss	7.6	7.3	7.5	7.4	kg/m ²
Average rate of mass loss	7.6	11.5	8.5	9.2	g/m ² .s
Additional Observations	None				
Difficulties Encountered during Testing	None				

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

Samples were adhered to a substrate of 10mm thick plasterboard using Professional Ultra Clear PRO 880 wallcovering adhesive prior to testing.

Tests were conducted with a wire grid placed over the sample during testing . This was done to contain intumescent sample within the sample holder.

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